CONSTRUCTION NEWS

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RAILWAYS.

*(*Deno s that this work is advertised in Engineering News.)*

MASSACHUSETTS.—Grand Trunk Ry System, Southern New England R. R.—E. H. Fitzhugh, Vice-Pres., is quoted as follows: "We hope within a few months to begin actual construction of the Southern New England R. R. from Palmer, Mass., to Providence, R. I. No other New England construction, except such as already has been announced, has been planned by the Grand Trunk system this summer." The differences between this road and the New Haven regarding the entrance into Providence have been satisfactorily adjusted.

RHODE ISLAND.—New York, New Haven & Hartford R. R. Co.—It is reported that this company is planning extensive improvements in and around Westerly this coming summer. The changes will include improvement of alinement and grade, and new passenger and freight stations. Edward Gagel, New Haven, Conn., is Ch. Engr.

CONNECTICUT.—New York, New Haven & Hartford Ry.—The detailed plans for the improvement of the Air Line division between New Haven and Willimantic, as filed with the State Railroad Commissioners, show alterations costing upwards of $1,000,000 in addition to the new railroad bridge which has recently been completed across the Connecticut River between Middletown and Portland. Noted Nov. 27.

NEW JERSEY.—Delaware, Lackawanna & Western R. R.—An agreement has been reached by this company, the Board of Aldermen and the other railways relative to the elimination of the grade crossing at Morris St. Other contemplated improvements will call for a total expenditure of $250,000 at this point. G. C. Ray, Hoboken, N. J., is Ch. Engr.

Pennsylvania R. R.—Improvements in Trenton, involving $500,000, are contemplated as follows: The changes include the abolition of the Perry St. grade crossing, the abandonment of the canal lock at East State St., the depression of the canal from East State St. to a point between Perry St. and the Belvidere division trestle, the lowering of the grade at Perry and State Sts., at the point where they cross the canal and railroad, the elevation of the viaduct over the main line near the Greenwood Ave. bridge and an extension of the freight station.

Since the Leavitt six-track bill, for the Pennsylvania R. R. did not pass the legislature, the company will not be able to do much, if anything, in the way of adding two more tracks to its present system from Trenton to Jersey City. One of the principal objects of the bill was to straighten the alinement a short distance south of Elizabeth. Noted April 30.

VIRGINIA.—Seaboard Air Line Ry.—See item under Miscellaneous Contracts. Railroad Equipment, Norfolk, Va.

✚OHIO.—Cleveland, Cincinnati, Chicago & St. Louis Ry.—The contract for relocating, double-tracking and improving about nine miles of line between Kyle and Sharonville has been awarded to THE WALSH CONSTRUCTION CO., Davenport, Iowa. It will involve about $1,000,000.

IOWA.—Fort Dodge, Des Moines & Southern R. R.—An extension from Fort Dodge to Spirit Lake, about 85 miles, is contemplated. Homer Loring, 64 Devonshire St., Boston, Mass., is Receiver, and Frank Arnold, Boone, Iowa, is Supt.

KANSAS.—Arkansas City, Wellington & Northwestern R. R.—Surveys are now being made from Arkansas City, Kan., to Hutchinson, about 95 miles, by the way of Wellington, Conway Springs and Cheney. G. H. Hunter, Wellington, Kan., is Pres., and Fremont Hill, Wichita, Kan., is Ch. Engr.

TEXAS.—Atchison, Topeka & Santa Fe Ry. —A line from Carthage, Tex., to Shreveport, La., about 50 miles, is contemplated. C. F. W. Felt, Topeka, Kan., is Ch. Engr.

IDAHO.—Oregon Short Line R. R.—Preliminary work is under way toward building short branches, one from Caldwell, west 11 miles, and the other from Nyssa, easterly to Homedale along the south bank of Snake River, 26 miles. Wm. Ashton, Salt Lake City, Utah, is Ch. Engr.

ARIZONA.—El Paso & Southwestern R. R.—Maps have been filed showing a route from Benson northwest to Tucson, about 20 miles. J. R. Emerson, Douglas, Ariz., is Res. Engr.

WASHINGTON.—Idaho & Washington Northern R. R.—Two branches are contemplated, one from Newport to Diamond Lake, and the other from Delkena to Davis Lake. W. C. Smith, Spirit Lake, Wash., is Ch. Engr.

ELECTRIC RAILWAYS.

(✚Denotes a contract awarded.)

*AUBURN, N. Y.—See item under Streets and Roads.

✚SUFFERN, N. Y.—The Suffern Ry. Co. has awarded the contract for building an electric railway from Suffern, N. Y., to Wahwah, N. J., to MAHER & ACKERMAN. H. H. Parmlee, Paterson, N. J., is interested.

SYRACUSE, N. Y.—The Syracuse, Watertown & St. Lawrence River R. R. Co. has been incorporated by M. H. Knapp and J. S. Moore for the purpose of building a railway connecting Syracuse, Watertown, Cicero and Brewerton, about seven miles.

✚PHILADELPHIA, PA.—The contract to complete the extension of the Philadelphia Western Ry. from Stafford to Norristown and North Wales, to connect with the lines of the Lehigh Valley Transit Co. at North Wales, has been awarded to STONE & WEBSTER, 147 Milk St., Boston, Mass. The estimated cost is $2,000,000. H. H. Nichols, 820 Dauphin St., Philadelphia, is Ch. Engr.

✚WOODLAWN, PA.—Woodlawn & Southern St. Ry. has awarded the contract for building a railway from Woodlawn to Aliquippa, about three miles, with a branch on Franklin Ave., Woodlawn, extending to New Sheffield, to J. G. McGUIRE CONTRACTING CO., New Brighton, Pa. J. L. Moore is interested.

HARRISBURG, PA.—A charter has been granted to the Northumberland County Traction Co., which, it is stated, will mean the linking of various electric trolley lines. The Sunbury and Northumberland road will be the basis of the combine which will make Sunbury the hub of the system. The counties included in the proposed merger are: Union, Snyder, Montour, Columbia, Lycoming, Luzerne, Schuylkill and Northumberland.

HELLERTOWN, PA.—The Hellertown & Richlandtown Electric Ry. Co. has been incorporated to build a 6-mile line. The incorporators are: A. R. Trumbauer, Benjamin Huttel, Jacob Apple and Eugene Leith. Noted April 20.

NEW CASTLE, PA.—A franchise has been granted to the Beaver Valley & New Castle Street Ry. Co., giving it the right of way to cross the Darlington Road and Clyde St., in Wampum. The franchise also grants the privilege of erecting an overhead bridge at the Darlington Road crossing.

RICHMOND, VA.—A charter has been granted by the State Corporation Comn. to the Henrico & Chesterfield R. R. Co., with headquarters at Richmond, which is controlled by the Virginia Railway & Power Co. The new company will operate an electric line from Ridge Church, Henrico County, to Bon Air, Chesterfield County. The road will extend a distance of six miles and will probably cross the Southampton bridge at the Country Club. The officers are as follows: Thomas S. Winston, Pres.; W. O. Burton, Vice-Pres.; W. C. Schmidt, Secy. and Treas., and George Bryan, John R. Badenoch and M. O. Wright, Directors, all of Richmond.

CHATTANOOGA, TENN.—C. E. James and associates have secured franchises to build another street railway system in this city with interurban extensions. This system is backed by $10,000,000 syndicate owning all the coal and iron mines surrounding Chattanooga.

NORTH RANDALL, OHIO.—The North Randall Ry. Co. has been incorporated and will build and operate a line of railway between North Randall and Cleveland. H. D. Devereux, Geo. A. Dietrich, John L. Cannon, H. A. Waterson and H. E. Wernar are the incorporators.

WARREN, OHIO.—Practically all the right of way had been secured and surveys have been made for a line from Ravenna to Warren. The roadbed of the old branch of the Baltimore & Ohio R. R. will be used from Ravenna to Newton Falls, and hence over private right of way from the Falls to Warren. A. S. Cole, Ravenna, is interested.

FORT WAYNE, IND.—The Fort Wayne & Winona Traction Co. is planning to build a railway from Fort Wayne to Warsaw by way of Arcola, Coesse, Columbia City, Larwill, Pierceton and Winona Lake, 45 miles. A power-house will be built at Fort Wayne and repair shops at Columbia City. J. A. Barry, Fort Wayne, is Pres.

HANOVER, IND.—Bids will be received by the Cincinnati, Madison & Western Traction Co. until May 30 for constructing a railway to connect Hanover, Madison, Scottsburg and Lexington. The line will be about 40 miles.

HOBART, IND.—The Gary, Hobart & Eastern Traction Co. will let contracts about May 20 for a line from Hobart to Broadway, Gary, Ind. U. P. Hord, Aurora, Pres. Noted April 6.

RICHMOND, IND.—The Richmond & Cincinnati Traction Co. has applied for a charter to build a railway between Richmond, Ind., and Cincinnati, Ohio.

VINCENNES, IND.—The Vincennes North & South R. R. Co. proposes to build a 50-mile line from Decker to Sullivan by the way of Purcell, Vincennes, Bruceville, Becknell, Freelandville, Carlisle and Paxton. A branch from Bicknell to Paxton is also proposed. James M. House and B. M. Willoughby, of Vincennes, and Edward H. Logsdon, of Indianapolis, are interested.

VIRGINIA CITY, MONT.—The right of way has been secured and surveys completed for an electric railway between Alder and Virginia City. L. H. Leber and R. J. Watson are connected with this project.

KANSAS CITY, MO.—A franchise has been granted to the Metropolitan Street Ry. Co. to extend its line on certain streets. John M. Egan, Kansas City, is Gen. Mgr. Noted April 20.

✚The contract for the construction of a railway connecting Kansas City, Grandview, Belton, Roymore and Harrisonville, about 35 miles, has been awarded to the SPITCAUFSKY-WAGNER CONSTRUCTION CO. Three bridges will be built, one 100 ft., one 200 ft. and one 60 ft., to be built of steel and concrete. W. N. Nagle is Ch. Engr.

AUSTIN, TEX.—W. D. Shelly, of Austin, and associates are promoting the construction of an electric street railway system for the western part of the city. The proposed line will be about two miles long and will reach the business center of the city.

✚LA PORTE, TEX.—The Bay Shore Rapid Transit Co. has awarded the contract to the W. E. ULE CONSTRUCTION CO. for building its projected line between Houston, La Porte and Sylvan Beach, about 35 miles.

PHOENIX, ARIZ.—The Phoenix Ry. Co. contemplates extending its system to Scottsdale and Ingleside. Also continuing its line on Central Ave. crossing the new bridge passing through Tempe to Mesa. Samuel H. Mitchell, 1404 East Washington St., Phoenix, is Gen. Mgr.

FOWLER, CAL.—Bids will be received until 8 p. m., June 6, by C. C. Hudson, Clk. Bd. of Trustees, Fowler, Cal., for a franchise, covering a period of 50 years, authorizing the Fresno, Hanford & Summit Lake Interurban R. R. Co., to build and operate a railway over certain streets here. A check for full amount must accompany the bids.

PETALUMA, CAL.—The Petaluma & Santa Rosa Ry. Co. will build an extension from Petaluma to McNears Point. Contracts will be let in the near future. E. M. Van Frank, this city, is Pres. and Gen. Mgr.

LIGHT AND POWER PLANTS.

*(*Denotes that this work is advertised in Engineering News.)*

EPPING, N. H.—A charter to develop the water power of the Lamprey River here has been granted to the Southern New Hampshire Development & Power Co. Surveys are being made. Dudley & Sawyer, Manchester, N. H., are the Engrs.

✚PORTSMOUTH, N. H.—The contract for heating and power plant extensions at the Navy Yard has been awarded to the WALWORTH MFG. CO., 132 Federal St., Boston, Mass., at $36,560. Noted April 20.

✚BOSTON, MASS.—The Municipal Building Commission has awarded to the M. B. FOSTER CO., of Boston, the contract for installing the electrical work in the new group power station, now under construction by the A. E. Stephens Co. The bid was $10,500.

✚WATERBURY, CONN.—The contract for a power house to be built by the Mattatuck Mfg. Co., on East Main St., has been awarded to TRACY BROS. CO., Waterville, Conn. Noted May 4.

ALBANY, N. Y.—Bids were opened by the Trus. of Pub. Bldgs., Capitol, Albany, April 20, for the equipment of the Capitol power house and conduits on Sheridan and N. Hawk Sts. as follows: Steam power equipment (each bidder submitted alternative bids): Gillis & Geoghegan, New York, N. Y., $212,558 and $207,777; G. A. Suter & Co., New York, N. Y., $218,500 and $212,100; John W. Danforth Co., Buffalo, N. Y., $221,975 and $216,975, and supplemental bid, $217,100 and $210,000; Blake & Williams, New York, N. Y., $222,947 and $215,947; Baker, Smith & Co., New York, N. Y., $224,940 and $220,170; The R. T. Ford Co., Rochester, N. Y., $226,900 and $219,000; Edward Joy Co., Syracuse, N. Y., $233,000 and $228,000; E. Rultzler Co., $258,257 and $250,507. Electrical equipment (alternative bids Nos. 1, 2 and 3): Lord Electric Co., New York, N. Y., $107,400, $106,200 and $102,800; The R. T. Ford Co., Rochester, N. Y., $115,525, $114,375 and $111,643; Edward Joy Co., Syracuse, N. Y., $126,820, $124,000 and $122,000. C. E. Knox, Consulting Engr., 76 William St., New York City; Franklin B. Ware, State Archt., Albany.

MARION, N. Y.—The Public Service Comn., Second District, has authorized the Marion Power Co. to construct and operate an electric lighting plant here.

✚New York, N. Y.—The contract for miscellaneous electrical supplies for which bids were opened April 13, was awarded to the PACIFIC ELECTRIC CO., 225 Fifth Ave., at $7,421. The other bidders were as follows: W. R. Ostrander Co., $7,920; E. B. Latham Co., $7,618; F. Pearce Co., Johns-Manville Co., Stanley & Patterson, Manhattan Electric Co., $7,421.

✚The contract for the installation of electric wiring and appurtenances for light and power, for the Metropolitan Hospital and surrounding buildings, Blackwell's Island, has been awarded to the NEW YORK CONSTRUCTION CO., 1328 Broadway, New York, at $19,740. There were four other bidders. Noted April 13.

NEW YORK, N. Y.—Bids will be received by the Department of Public Charities until 2.30 p. m., on May 15, for a complete electric feeder system for lighting and power service of Section No. 1, including the spur line and service connection to the Catholic Church, and service connection to the new laundry building in the electric subway and conduit system at the New York City Home for the Aged and Infirm, Blackwell's Island, the City of New York. Blank forms and further information may be obtained at the office of the Supervising Engineer of the Department, foot of East 26th St., New York, where plans and specifications may be seen. Michael J. Drummond is Comr.

✚NEW YORK, N. Y.—Bids were received on April 8 and contracts awarded as follows: For installing electric equipment in new Public School 95, Borough of Manhattan: Phillips Mfg. Co., $13,925; New York Construction Co., $13,800; Peet & Powers, $13,771; Anderson Martin Electric Co., $14,800; L. J. WADSWORTH CONSTRUCTION CO., $12,067 (awarded contract); T. Frederick Jackson, Inc., $12,980; Commercial Construction Co., $14,186. Also Item 1, installing heating and ventilating apparatus, and Item 2, installing temperature regulation in new Public School 108, Borough of Brooklyn. Item 1: Wm. J. Olvany, $45,418; G. A. Sutter & Co., $44,180; Blake & Williams, $44,982; James Curran Mfg. Co., $44,800; Frank Dobson Co., $43,770; Gillis & Geoghegan, $44,440; E. RUTZLER CO., $43,075 (awarded contract); Raisler Heating Co., $45,693; Daniel J. Rice, $45,623. Item 2, National Regulator Co., $3,797; Johnson Service Co., $3,765 (awarded contract). Also installing electric equipment in new Public School 165, Borough of Brooklyn: Commercial Construction Co., $10,186; T. FREDERICK JACKSON, INC., $8,914 (awarded contract); Peet & Powers, $9,969; Anderson Martin Electric Co., $10,080; L. J. Wadsworth Construction Co., $9,367; New York Construction Co., $9,800.

*UTICA, N. Y.—Bids will be received by the Bd. of Contract and Supply at the Common Council Chamber until 2 p. m., on May 24, for the construction and extension of electric subways here. The said work will consist of about 150,000 duct ft. of tile and appurtenances. Plans, specifications, etc., may be obtained from Stuart P. Day, Secy., Bd. of Contract and Supply, 1 City Hall.

FORT TOTTEN, N. Y.—Bids were received on May 3, as follows, for a heating plant to be installed for Barracks Nos. 107, 108 and 110: Thomas E. Gilden, $42,480; James Curran Co., $14,931; Hoben & Doyle, $12,400; L. H. Jacobs, $11,970; Raisler Heating Co., $13,500; James P. Powers, $12,832; E. Rutzler Co., $14,685; Edward Joy Co., $15,900; Walworth Manufacturing Co., $14,022; William J. Olvany, $14,172; Earl & Cook Co., $14,139; New York & New Jersey Co., $12,461; Healy, Plum & Heat Co., $14,030; Philip & Paul, $12,975, and Newport Contracting & Engineering Co., $11,325 (recommended for award). Noted April 6.

PITTSBURG, PA.—The Union Steel Casting Co., Gist and Butler Sts., has purchased one acre of land on which a power house will be erected in the near future.

CLARION, PA.—Application for charters of incorporation has been made by a group of capitalists, who are planning to build a dam on the Clarion River, at Clarion, estimated to cost $3,000,000. Joseph R. Paull, H. W. Douglas and P. Fife, all of Pittsburg, are interested.

PHILADELPHIA, PA.—The Chief Engineer of the Electrical Bureau, is planning an illuminating scheme for the South Broad Street Boulevard and League Island Park. The Boulevard will have two rows of twin arc lights mounted on ornamental standards on each side of the center driveway, about 190 lights, and two rows of Tungsten lamps, 70 candle power each, mounted on 10-ft. standards on each side of the foot walks, about 420 lights. A line of lights will be installed around the lake in the League Island Park.

BALTIMORE, MD.—The Susquehanna Transmission Co., Continental Bldg., Baltimore and Calvert Sts., has filed a petition with the Public Service Comn. for permission to issue bonds to obtain funds for the construction of lines 32 miles long for transmitting electricity to Baltimore from McCalls Ferry, Pa. The water power electrical development of Pennsylvania Water & Power Co.

SYKESVILLE, MD.—Plans for a power house and a cottage, to be built at the Springfield State Hospital, to cost $20,000, have been prepared by Parker, Thomas & Rice, Union Trust Bldg., Baltimore. Brick and concrete will be used for the construction.

WASHINGTON, D. C.—Bids will be received at the office of James Knox Taylor, Supervising Arch., Treasury Department, Washington, D. C., until 2 p. m., June 1, for supplying and installing lighting fixtures in the U. S. buildings at Amsterdam, N. Y.; Keene, N. H.; Marlboro, Mass.; Olean, N. Y.; Shamokin, Pa.; Webster, Mass.; Woburn, Mass., and Lynchburg, Va. Plans and specifications, copies of which may be obtained at the above office.

✚RICHMOND, VA.—Bids were received as follows on May 8, by the Supervising Arch. of the Treasury, Washington, for the installation of electric wiring at the Richmond post-office: Strang Electric Co., Philadelphia, $11,580; National Electric Supply Co., Washington, $12,180; Keenan Electric Co., Watertown, N. Y., $10,880; Charles F. Brown, New York, $13,131; C. & W. Electric Co., Henderson, N. C., $13,063; F. N. Steigleder

& Co., Richmond, Va., $13,756; Atlantic Electric Co., Norfolk, Va., $7,923; Keller-Pike Co., Philadelphia, $9,986; S. Faith & Co., Philadelphia, $9,380; Witman & Mountford, Macon, Ga., $11,985; William H. Jenks, Richmond, Va., $9,300.

✚WHEELING, W. VA.—The contract for the construction of an electric plant to cost from $700,000 to $900,000 has been awarded by the Wheeling Electric Co. to DRAVO CONTRACTING CO., Lewis Blk., Pittsburg, Pa.

SISTERVILLE, W. VA.—Bids will be received until May 15 by the City Clerk for a power house in connection with the water-works.

✚ROCKINGHAM, N. C.—The contract for continuing and completing the construction of hydro-electric plant and 100 miles of transmission line has been awarded to F. W. ABBOTT & CO., 90 West St., New York, by the Yadkin River Power Co., Charles E. Johnson, Raleigh, N. C., is Pres.

WILMINGTON, N. C.—The Tidewater Power Co. is considering the installation of one 400 HP. boiler and other machinery at its gas plant here.

ATLANTA, GA.—The Atlanta Hydro-Electric Power Co. contemplates construction of a hydro-electric plant, capacity of 30,000 HP. Estimated cost, $3,000,000.

OGELTHORPE, GA.—Bids will be received about July 1 for the construction of an electric light plant and water-works for which $18,000 bonds has been voted by the city. J. P. Nelson is Mayor.

COLQUITT, GA.—Bids will be received until June 10 for improving electric light system to cost $7,500, and also improvements to the water supply, to cost about $7,500. P. E. Wilkin is Mayor. Noted April 27.

MONTGOMERY, ALA.—The Montgomery Light & Water Power Co. will install a jet type condenser. This company is controlled by Doherty Operating Co., of which H. W. Scott, 60 Wall St., New York, N. Y., is Gen. Mgr.

TUPELO, MISS.—A bond issue of $50,000 has been voted to improve the electric light plant, erect a city hall and pave streets. Noted Feb. 2.

LEXINGTON, TENN.—The issue of $50,000 bonds has been authorized by the Legislature, to be used for the construction of an electric light plant and water-works. C. G. Gathings is Mayor.

COLUMBUS, OHIO.—Bids will be received by the Bd. of County Comrs. until June 2 for the construction of a power house at the Franklin County Infirmary Farm. Howard & Marion are the Archs.

MARION, IND.—A franchise for an artificial gas system has been granted to Col. J. L. McCulloch, of this city.

ANN ARBOR, MICH.—An appropriation of $280,000 has been made by the Legislature for the proposed heating, lighting and power plant, to be built at the University of Michigan.

MARQUETTE, MICH.—Bids will be received by the Light & Power Comn. until May 20 for building two concrete dams on Dead River, near Marquette. An issue of $100,000 bonds has been made. Charles Retallic is Supt. of the Comn.

LA CROSSE, WIS.—Bids will be received by James Knox Taylor, Supervising Archt., Washington, D. C., until May 15 for a conduit and wiring system and extension of the present gas piping system in the old partition of the U. S. Post Office and Court-House at La Crosse.

✚STOUGHTON, WIS.—The contract for installtion of an electric light plant on the Yahara River has been awarded to THE POWER ENGINEERING CO., Minneapolis, Minn. The plant will cost about $75,000.

ANITA, IOWA.—W. K. Palmer Co., of Kansas City, Mo., is preparing plans for an electric light plant. H. H. Cate is Town Clk.

HUMBOLDT, IOWA.—The Humboldt Electric Light & Power Co. and the Northern Roller Milling Co. will build a dam and plant of 1,200 HP., on the Des Moines River. Estimated cost, $80,000. Max Toltz, St. Paul, Minn., is Engr.

DELANO, MINN.—Preliminary plans will be made by Oscar Claussen Engineering Co., St. Paul, for remodeling or building a new electric light plant.

QUENEMO, KAN.—I. C. Bushong, of Ottawa, Kan., has been retained to prepare plans for an electric light plant. The estimated cost is $6,000.

LA CYGNE, KAN.—Plans for an electric light system are about completed, and bids will be asked for shortly. Extensions and improvements will probably be made to the water-works. The town has voted $30,000 bonds.

CUSTER, S. DAK.—The Custer Electric Light, Heat & Power Co. has been granted a franchise to operate an electric plant, for a period of 50 years. Edward L. Grantham is Pres.

FAIRVIEW, S. DAK.—Contracts will soon be let for a hydroelectric power plant to be built on the Big Sioux River by the Fairview Milling Co., to cost about $100,000. Plans are being prepared by the Missouri Valley Engineering Co.

VELVA, N. DAK.—A franchise has been granted to John Moore to build and operate an electric light plant, for a period of 20 years.

COLUMBIA, MO.—Bids will be received by John S. Bicknell, City Clk., until May 16, for a power plant. Plans and specifications may be seen at the office of the City Clk.

✚KANSAS CITY, MO.—The Kansas City Electric Light Co. has awarded contract to the ELECTRIC STORAGE BATTERY CO., Philadelphia, Pa., for installation of a storage battery plant at the substation, Sixth and Wall Sts., for $100,000.

EL PASO, TEX.—Permits have been secured by the El Paso Electric Ry. Co., to build an addition to the present power station. The new structure will be 120 × 58 ft. and 78 ft. high. Steel and brick will be used. Estimated cost, $83,290. About $62,350 will be spent for equipment.

DEL RIO, TEX.—Preliminary surveys are being made for a hydroelectric and irrigation plant to be built on the Pecos and Devil's Rivers by a syndicate. David R. Francis, St. Louis, Mo., is interested. The project will cost approximately $5,000,000.

SENTINEL, OKLA.—A municipal electric light plant will be built here. Bonds to the amount of $12,000 has been voted. T. Murch, Clinton, Okla., is Engr., and J. M. Terry is Town Clk.

SKIATOOK, OKLA.—Bonds have been issued for an electric light plant, to be built here.

WELEETKA, OKLA.—A bond issue of $45,000 has been made for the construction of an electric light plant and water-works.

✚TRUCKEE NEV.—The Secretary of the Interior, Washington, D. C., has awarded to the GENERAL ELECTRIC CO., Schenectady, N. Y., the contract for electrical apparatus for the Truckee-Carson irrigation project, to consist of alternators and switchboards, for $8,213 f. o. b. cars at the factory. The contract for furnishing hydraulic turbines for $9,740 was awarded to PELTON WATER WHEEL CO., San Francisco, Cal. Noted April 13.

LEWISTON, IDAHO.—A franchise has been granted the Lewiston-Clarkston Improvement Co. to construct and operate a system for lighting and heating.

NAMPA, IDAHO.—L. L. Nurn has been granted, by the Commissioners at Caldwell, a franchise to install a light, heat and power system here. A generating plant will be built on the Nalad River.

✚The contract has been awarded to the WESTINGHOUSE ELECTRIC MANUFACTURING CO., Pittsburg, Pa., for furnishing one 360-HP. motor, two 600-HP. motors, and necessary switchboards to control the motors and control panel for two 500-KVA. transformers for use on the Minidoka irrigation project, Idaho. Contract price is $14,000. The contract for furnishing two 125 second-ft. pump and two 500-KVA. transformers for use in connection with the Minidoka project has been awarded to ALLIS-CHALMERS CO., Milwaukee.

MONROE, WASH.—H. H. White, representing the Everett Gas Co., has petitioned the City Council for a franchise to extend the present system from Snohomish to Monroe.

SPOKANE, WASH.—Plans for a generating plant to be built by the Spokane Falls Gas Light Co., at Bradley Ave. and Erie St., adjoining the present plant, have been finished. The estimated cost is $75,000. A. N. Cantril is Mgr.

GRANTS PASS, ORE.—The City Council has decided to install cluster lights at corners of all paved streets.

MADRAS, ORE.—The City Council has passed an ordinance authorizing A. E. Hammond to construct and operate an electric light and power plant.

LOS ANGELES, CAL.—Bids will be received by the Bd. of Supervisors until 2 p. m., May 29, for a franchise granting right for a period of 40 years, to lay, construct and maintain a system of gas pipes under and along public roads and highways of Los Angeles County. H. J. Lelande is County Clk.

The Bd. of Supervisors of Los Angeles County will receive bids until May 29 for a franchise for laying gas mains along the county roads leading from Los Angeles to Redondo, San Bernardino and Riverside.

✚The Bd. of Supervisors have awarded the contract for furnishing electrical fixtures for the new Hall of Records to the THOMAS DAY CO., San Francisco, at $13,360.

MADERA, CAL.—Bids will be received for the sale of a franchise until 7.30 p. m., May 15, at the office of W. C. Utter, City Clk. Bd. of Trustees, in the W. O. W. and I. O. O. F. Block or building, for a franchise which was applied for by F. C. Roberts on April 17, covering a period of 50 years, to lay gas pipes, mains and conduits in each and all of the streets, alleys, highways, parks and thoroughfares of the City of Madera for the purpose of carrying gas and distributing same, for light, heat and power, also to erect a gas plant for the generation and manufacture of gas, and reservoir for the storage of the same, with appurtenances.

RIVERSIDE, CAL.—Bids will be received until 10 a. m., May 24, by the Bd. of Supervisors, for sale of a franchise granting the right to construct and operate an electric pole and wire system to transmit electricity, for light, heat and power along all public roads of Riverside County, for a period of 50 years. A. B. Pilch is County Clk.

SAN JACINTO, CAL.—Improvements will be made to the electric light system here. New machinery will be installed. Electricity will be furnished for pumping plants as well as for lighting purposes.

LOS ANGELES, CAL.—The Machinery & Electric Co. submitted the lowest bid for furnishing two engine generator sets, to be installed in the Hall of Records. This company submitted five bids ranging from $11,028 to $14,582.

COTEAU, QUE.—E. A. Robert, Pres. of the Canadian Light & Power Co., has placed plans before the Dominion Government for a large power development at Cedar Rapids on the St. Lawrence, about 25 miles above Montreal. The cost ultimately may reach $15,000,000 to $20,000,000. The Government will consider the plans on May 11.

GEORGETOWN, ONT.—Bids will be received up till noon, May 20, for heating by steam the public school. Competers may obtain plan of school from the Secretary, but must themselves supply detailed plans and specifications of their heating system. Bids must include cost of labor and material necessary to install the system complete.

MELVILLE, SASK.—Bids will be received until May 25, by John Crow, Secy.-Treas., for the following machinery and materials to be delivered during the current season: Two 50-KW., 3-phase, 60-cycle, 2,300-volt A. C. generators; two exciters for same; three 2,300-volt A.C. motors; one marble switchboard, instruments, switches; 300 cedar poles; three tons copper wire and other line and wiring material; 10 lightning transformers, 2,300-volt to 110-volt; series street lighting system; two 3-stage turbine pumps; one 6-in. vertical submerged type centrifugal pump, with shafting and piping; approximately, 3 tons of 10-in. standard c.-i. water pipe; approximately, 60 tons of 8-in. standard c.-i. water pipe; approximately, 200 tons of 6-in. standard c.-i. water pape; approximately 25 tons of 4-in. standard c.-i. water pipe; special castings for all above sizes; 4-in., 6-in. and 8-in. gate valves and valve boxes; 44 fire hydrants; approximately, 17,000 lbs. of pig lead; approximately, 1,000 lbs. of oakum; 400 ft. of 8-in. wood pipe.

The Town Council has given an order to the BRYDES ENGINEERING & SUPPLY CO., Winnipeg, for two gas producers engine of 82-HP. each.

PRINCE ALBERT, SASK.—Bids will be received by A. Holmes, Chn. Bd. of Comrs., until May 31, for electrical machinery.

BRIDGES.

(✚Denotes a contract awarded.)

✚SPRINGFIELD, MASS.—The Boston & Albany R. R. has awarded contracts to the NEW ENGLAND STRUCTURAL CO., of Boston, for the construction of eleven steel bridges along its line between Springfield and Worcester and for the new span over the Charles River at Cottage Farm. About 2,000 tons of steel will be used in this work.

WEST SPRINGFIELD, MASS.—Press reports state that the Boston & Albany R. R. Co. is planning to replace the Main and Baldwin St. bridges with new and heavier structures. W. G. S. Chamberlain, Boston, is Bridge Engr.

NEW YORK, N. Y.—We are officially advised that plans only are now being prepared by the staff of engineers of the Pennsylvania R. R. Co. for the construction of the proposed bridge at Hell Gate. The cost of the structure is estimated at $20,000,000.

SCHUYLERVILLE, N. Y.—Plans for the reconstruction of a portion of the bridge crossing the Hudson River at Schuylerville have been approved by the State Canal Board and the Superintendent of Public Works will soon advertise for bids as a part of the barge canal improvement. The estimated cost for the structure is $23,553.

*LACKAWANNA, N. Y.—Bids will be received by the Common Council until 8 p. m., June 5, for excavating, building two concrete abutments, and erecting a skew span steel girder highway bridge, 43 ft. long. John J. Monaghan is City Clk.

✚JERSEY CITY, N. J.—The Hudson County Board of Freeholders on May 4 awarded a contract to STILLMAN, DELAHANTY & FERRIS, of Jersey City, for constructing a steel bridge over the Morris Canal at Communipaw Ave., at $7,620. The other bidders were: Cement Paving Construction Co., $9,850; Joseph H. Cutley, $10,650; F. W. Schwiers, $12,450; Bond & McNalley, $10,800. Noted on April 27.

PASSAIC, N. J.—The lowest bid received by the Board of Freeholders of Bergen County for constructing the drawbridge, which is to span the Passaic River at Rutherford Ave. to the Bergen County side, was submitted by Walter J. Harris, at $60,375. The other bids were: Stillman-Delehanty-Ferris Co., $62,280; Pennsylvania Steel Co., $73,140; F. W. Schwiers, Jr., $67,749; Long & Miller, $84,255; Snare & Triest Co., $72,480; Northeastern Construction Co., $77,983; Oswego Bridge Co., $71,490; F. R. Long & Co., $67,720; Oscar Daniels, $87,000.

PATERSON, N. J.—Bids will be received by the Joint Committee of the Boards of Chosen Freeholders of Passaic and Morris counties until 10 a. m., May 17, for building a reinforced concrete arch bridge over the Pequannock River, on the road from Newfoundland to Petersburg, in the Township of West Milford. Plans and specifications may be seen at the offices of the County Engineers of Passaic and Morris counties at their respective court houses.

McKEESPORT, PA.—The County Commissioners have decided to erect a bridge across Pine Creek on the Butler plank road, to cost $12,000. Samuel D. Foster is County Road Engr.

PITTSBURG, PA.—We are officially advised that bids will be received about June 1 for widening the Smithfield St. bridge about 4.5 ft., at a cost of $110,000. Willis Whited is Designing Engr. and H. S. Sprague, Supt. Bureau of Construction.

Official advices are to the effect that bids will be received by John H. Moffitt, County Controller, until noon, May 22, for the construction of the following bridges: The McClain bridge over Chartiers Creek, on the line between Chartiers and South Strabane Townships; the Appelgate bridge over Sugar Run in Independence Township; the Main St. bridge over Catfish Creek, Washington Boro; the Twilight bridge over the south branch of Maple Creek in Twilight Boro. On the first two bridges bids will be received on the substructure and superstructure, both separately and combined. Chaney & Armstrong are the County Engrs.

✚READING, PA.—We are officially advised that contracts for constructing Bordners bridges, Nos. 1 and 2, were awarded on April 26 to H. E. AHRENS & CO., Reading, Pa., at $6,290.

SCRANTON, PA.—We are officially advised that bids will be received until 4 p. m., May 15, for constructing the Mulberry St. viaduct, estimated at $265,000. M. Ward Easby, Philadelphia, Pa., is Designing Engr.

✚WESTOVER, PA.—We are officially advised that a contract has been awarded to BOYER, PATTERSON & MORRIS, Philadelphia, for constructing th[e] [con]crete highway bridge over [...] over.

✚PHILADELPHIA, PA.—W[e are officially] advised that bids were receive[d and contract] awarded on May 9, as foll[ows: for widen]ing Chestnut St. bridge [over Schuylkill] River, estimated at $90,000 [...] HUGH, Arcade Bldg., Phil[adelphia] (awarded contract); Owego [Bridge Co., Ar]cade Bldg., Philadelphia, $7[...]; Paving & Construction Co., [...] St., Philadelphia, $76,900; [...] Construction Co., Monadnock [Bldg., Chicago,] Ill., $87,800; Richard Wals[h, ...] St., Philadelphia, $96,989.

For building a bridge o[n ...] Springfield Ave., under the [...] Baltimore Central R. R., est[imated at $40,]000: DONATO DELISE, 3556 [...] St., Philadelphia, $32,470 [(awarded con]tract); W. P. Mahoney, 702 [...] $32,900; T. F. Reilly, 50th St. [...] $33,000; Owego Bridge Co., [...] $34,424; Robert Higgins, 46[...] Ave., $34,600; M. & J. B. Mc[...] Bldg., $36,800; McNichol Paving [& Construc]tion Co., Betz Bldg., $37,531; [...] Mundy, 223 South Ninth St., $[...]; [...]trell Construction Co., 2523 Sou[th ...] $38,450; Richard Walsh, $38,4[...]; [...] Paving & Construction Co., $39,[...]; [...] Shields, Witherspoon Bldg., $3[...]; [...] & Evans, 14 South Broad St., $3[...]. [...] H. Quimby is Engr. of Bridges. [Noted] May 4.

✚BALTIMORE, MD.—The BO[...] ART CO., Philadelphia, Pa., [has been] awarded a contract to build a ne[w ...] concrete bridge for the Pennsylv[ania R. R.] Co., at Union Station, connecti[ng ...] and St. Paul Sts. The bridge w[ill ...] width of the street and will be [...] ft. long, supported by steel colum[ns and re]inforced concrete arches, railing [...] to be ornamental iron.

✚RICHMOND, VA.—We are offi[cia]lly advised that contracts have been a[war]ded as follows, on April 26 for const[ruc]ting a bridge in Buckingham County, to AUSTIN BROS., Atlanta, Ga.; on May 1, a bridge in Hanover County, to the VIRGINIA BRIDGE & IRON CO., Roanoke, Va.

LEWISBURG, W. VA.—Bids will be received by J. E. Dougher until 2 p. m., May 16, for building a bridge across Meadow River, near the mouth of Brackens Creek at Russellville. J. E. Dougher, Lewisburg, is County Road Engr.

✚WHEELING, W. VA.—The Baltimore & Ohio R. R. has awarded a contract for a bridge at Wheeling, calling for 1,600 tons of steel shapes, to the AMERICAN BRIDGE CO.

ABBEVILLE, GA.—Bids will be received by the Wilcox County Commissioners, D. D. Faircloth, Chn., until noon, May 15, for constructing a steel bridge over Alapaha River four miles from Rochelle, Ga., on Rochelle and Ashburn Road.

ST. AUGUSTINE, FLA.—We are officially advised that plans are being prepared by the Strauss Bascule Bridge Co., Fort Dearborn Bldg., Chicago, Ill., for a 63-ft. single leaf, single track, bascule bridge over Pablo Creek.

GEORGETOWN, KY.—The Scott County Commissioners will advertise for bids for constructing, some time in May, seven highway bridges. Prof. Walter E. Rowe, dean College of Civil Engineering, State University of Kentucky, Lexington, Ky., has been employed as Designing and Inspecting Engr.

DAYTON, OHIO.—We are officially advised that bids will be received until May 19 for constructing an iron and steel bridge with concrete foundation, estimated at $16,000, at Sunrise and Edgewater Aves. F. J. Allarius is Designing Engr.

CANTON, OHIO.—Bids will be received by the Stark County Commissioners at their office in the Court House at Canton until 10 a. m., May 22, for the erection and construction of the William Geckler Bridge, No. 80914-A in Pike Township in accordance with plans and specifications now on file in the Auditor's office.

HAMILTON, OHIO.—Bids will be received by J. E. Brate, County Audr., until 10 a. m., May 31, for constructing a bridge on Sevenmile Pike.

NORFOLK, OHIO.—Bids will be received by the Board of Commissioners of Huron County until 10:30 a. m., May 29, for furnishing the material and tools and performing the labor necessary to construct the sub-structure of the Garret Bridge on the Bull Head Road, over Marsh Run, about one-half mile west of New Haven.

TOLEDO, OHIO.—The city is considering the construction of a bridge on Summer St. to cost $20,000. A. H. Smith is Engr.

PALESTINE, OHIO.—Bids will be received by the County Commisisoners at Sidney until May 13 for constructing the superstructure of a steel highway bridge, 75-ft. span, over Mosquito Creek, Green Township, near Palestine. H. T. Ruese is County Audr.

WARREN, OHIO.—Bids will be received by the Board of Commissioners of Trumbull County, until 1 p. m., May 29, for the construction of the superstructure of a bridge near the Cox Farm, Farmington Township. Length of bridge, 42 ft.; roadway, 12 ft. clear.

✚BLOOMFIELD, IND.—We are officially advised that a contract for constructing three bridges was awarded on May 1 to the VINCENNES BRIDGE CO., Vincennes, Ind.

BLOOMINGTON, IND.—The Commissioners of Monroe County have ordered plans on which bids will soon be asked for the construction of an overhead bridge at the Monroe crossing of the Vernal pike.

INDIANAPOLIS, IND.—The County Council has made appropriations for the construction of 22 new bridges and culverts. The County Commissioners will ask for bids as soon as plans and specifications can be made. John Kitley is Chn.

MARTINSVILLE, IND.—The Commissioners of Morgan County have approved plans for the construction of a concrete bridge 450 ft. in length, with 20-ft. roadway, across White River at Waverly. The structure will have four arches, two 125 ft., and two 100 ft. [illegible] will be advertised for in a short time. The County Council has appropriated $40,000 for this structure. S. A. Blunk is Engr.

✚PRINCETON, IND.—We are officially advised that a contract for constructing five steel bridges was awarded on May 3 to the VINCENNES BRIDGE CO., Vincennes, Ind., at $5,2[illegible] Noted on April 27.

✚RICHMOND, IND.—Commissioners of Wayne County hav awarded contracts for the construction of five bridges as follows: To I. [illegible] SMITH, the Beeler bridge, at $7,350; extra piling, 65 cts. per lin. ft.; earth fills, [illegible] cts., and gravel fills, 50 cts. per cu. yd.; the Harris, Lannard, Simpson and Wright bridges, to T. J. & H. F. BURK, at $1,794, $1,949, $3,747 and $1,419, respectively; 26¾ cts. for earth fills and 75 cts. per cu. yd. for gravel fills to the approaches.

✚WAUSAU, WIS.—The Marathon County Board of Supervisors have awarded bridge contracts as follows: 80-ft. single span steel bridge for Townships of Hull and Holton, near Abbotsford, to the JOLIET BRIDGE & IRON CO., Joliet, Ill.; two-span steel bridge for Township of Bern, near Athens, to WAUSAU IRON WORKS, Wausau.

MADISON, NEB.—Bids will be received by the County Commissioners until May 12, for furnishing material and constructing certain I-beam bridges as ordered during the year.

PEMBINA, N. DAK.—Bids will be received by W. W. Felson, County Audr., until May 16, for constructing all steel and concrete bridges to be built during the year 1911.

✚MUSKOGEE, OKLA.—We are officially advised that contracts for constructing bridges were awarded on May 2, as follows: VINCENNES BRIDGE CO., Vincennes, Ind., No. 12—$4,150, 15—$2,865, 26—$2,396, 29—$1,575, 30—$1,740, 31—$1,585, 32—$1,315, 34—2,524, 39—$1,085, 41—$1,365, 44—$1,144, 45—1,320, 46—1,109, 48—$3,840, 49—$1,250; MIDLAND BRIDGE CO., Kansas City, Mo., No. 13—$1,15, 22—$1,095, 23—$1,247, 24—$1,221, 28—$1,178, 35—$1,116, 36—$1,116, 40—993, 47—$2,359, 50—$1,159; MUSKOGEE IRON WORKS, Muskogee, 33—$2,575, 52—$1,066, 53—$2,696; Missouri Bridge & Iron Co., St. Louis, Mo., bid $49,300 on 51A, for concrete piers, and the Missouri Valley Bridge & Iron Co., Leavenworth, Kan., bid $43,760 on 51B, same bridge on tubes. Neither bids were accepted, as the building of the bridge depends on the voting of bonds, the election to be held on May 16. S. C. Pitts is County Engr., and W. E. Looper, County Clk. Noted on April 13.

MOAB, UTAH.—Bids will be received by the Board County Commissioners until May 20 for constructing a bridge over Grand River on the State Road, from Moab to Thompson. A. A. Neff is County Clk.

BUILDINGS.

*(*Denotes that this work is advertised in Engineering News.)*

BANGOR, ME.—Representative Guernsy introduced a bill into the legislature providing for the erection of a new post-office and customs house at Bangor, to replace the building destroyed by fire recently. The building is to cost not more than $300,000.

ATHOL, MASS.—The L. S. Starrett Co., Athol, Mass., is having plans and specifications prepared by Charles T. Main, Boston, Mass., for an office and graduating building. The construction will consist of outer walls of brick with reinforced concrete columns and steel framing protected by concrete. The main portion of the building will be 122 ft. 10 ins. long by 89 ft. wide.

✚BOSTON, MASS.—The S. A. Woods Machine Co., South Boston, have awarded the contract for the foundations of a new power plant to THE NEW ENGLAND FOUNDATION CO. Plans and specifications were prepared by Charles T. Main, Mill Engr., Boston, Mass. The completed plant will consist of an engine room 49 ft. by 58 ft. 8 ins. with one story and basement, and a 1-story boiler house, 46 ft. 8 ins. by 57 ft. Concrete piles and foundations are called for, but the outer walls are to be of brick. The roof will be of steel and concrete, while all floors will be of the latter. A 5 × 6 ft. tunnel 150 ft. long will be constructed to connect the powerhouse to the mill.

FORT STRONG, MASS.—Capt. A. M. Miller, Constr. Q. M., U. S. A., will receive bids until May 15 for the erection, including plumbing, heating, wiring, etc., of an addition to the post hospital at Fort Strong.

✚NORTON, MASS.—E. K. WATSON CO., Warren, Mass., has been awarded the contract to erect the new science building at Wheaton Seminary, Norton, Mass. The contract price was withheld. The new building is to be a fireproof 3-story structure of brick and steel, with granite and limestone trimmings.

BARRE, MASS.—A school house is about to be erected here. Frost, Briggs & Chamberlain, Worcester, Mass., are Archs.

BOSTON, MASS.—C. A. W. Crosby & Co. are about to erect a building at Avon and Washington Sts. It is to be six stories high, of white terra cotta exterior. Samuel D. Kelley, 209 Washington St., is Arch.

The Boston Elevated R. R. Co. contemplates building storage buildings on Camden St., Roxbury District. Chas. S. Sergeant is Vice-Pres.

Bids will be received until May 17 for erecting a school house. Chas. Logue is Chn. School House Comn.

✚WORCESTER, MASS.—The contract for business block, 74 ft. × 113 ft., on Mechanics St. has been awarded to E. D. WARD.

✚The contract for an apartment block on Carroll St. has been awarded to N. MEYERS. Edwin T. Chapin is Arch.

QUINCY, MASS.—The city is about to expend $120,000 for schoolhouses. Louis Bainbridge is Comr. of Public Wks.

BRIDGEPORT, CONN.—E. G. Southey, 983 Broad St. is preparing plans for the new third police precinct station. The structure will be of brick with terra cotta front and stone trimmings.

HARTFORD, CONN.—Frank W. Hilton is preparing plans for a brick store and apartment block at 148 Front St. for Thomas Lawler. The building will be 33 × 84 ft., four stories high, with pressed brick front.

A. J. Des Champs is planning the erection of a large apartment block at 77 Elm St. The building will be of brick and cover the largest portion of the lot which is 115 × 200 ft.

NEW HAVEN, CONN.—A. E. Weston, Keith Bldg., Philadelphia, Pa., has been selected to draw the plans for the new theatre and business block on Church St. for S. Z. Poli, to replace the structure recently destroyed by fire.

NORTH HAVEN (New Haven post-office), CONN.—Allen & Williams, 82 Church St., New Haven, have been commissioned to draw plans for the new Congregational Church in North Haven, of which Rev. Edward Evans is pastor. The building will be of brick with a main auditorium and Sunday School rooms in the rear. W. E. Dickerman, Walter Patten, Ward Church, George Merz and S. E. Thorpe are members of the building committee.

STAMFORD, CONN.—Reports state that the LEVIN & LEVIN CONTRACTING CO., 320 Fifth Ave., New York, have been awarded the contract for the new school at Shippan Point for the Low & Heywood School, Inc. The main building will be 102 × 130 ft., three stories high, of hollow tile blocks and stucco, and there will be an 80 × 89 ft. extension for gymnasium, assembly hall and laboratories. The plans were drawn by Henry Atterbury Smith, 1181 Broadway, New York City.

WATERBURY, CONN.—F. H. Carroll is planning the erection of a 9-sty brick apartment block at Willow and Grove Sts. The building will be 66 × 110 ft., of tapestry brick with Indiana limestone trim and arranged for about 60 apartments of three, four and five rooms. Joseph A. Jackson, New York City, is the Arch.

The Board of Education will receive bids until 8 p. m., May 12, for the erection of new addition to the High School on East Main St. The addition will be 30 × 96 ft., three stories and basement, of light pressed brick with limestone trim. Theodore B. Peck, 65 Bank St. is the Arch.

BROWNSVILLE, N. Y.—Controller Prendergast has purchased a new school site in Brownsville. The appropriation for the building will be included in the corporate stock budget which is now being prepared by the Board of Estimate.

BLAUVELT, N. Y.—The bids received by the State Armory Commission on May 2 for construction of mess hall, headquarters building and latrine at the State Rifle Range at Blauvelt, N. Y., were: Frank Besch, Troy, N. Y., $43,370; R. W. McCready, Tuxedo Park, N. Y., $52,996; Peter Keeler Building Co., Albany, N. Y., $54,399; R. T. Ford Co., Rochester, N. Y., $55,000; D. F. Dakin, Mount Kisco, N. Y., $56,500; E. P. Valkenburgh, Middletown, N. Y., $56,839; Merrick Fireproofing Co., New York, $57,400; James C. Nolan, Albany, N. Y., $59,630; Concord Construction Co., New York, $59,947; John R. Sheehan & Co., New York, $63,900. The bids received for the construction of water supply and sewerage systems at same place were: Frank Besch, Troy, N. Y., $13,280; F. N. Lewis, Albany, N. Y., $17,126.75; New York Sewage Disposal Co., New York, $17,463; Bond & McNally, Weehawken, N. J., $22,358; D. F. Dakin Co., Mount Kisco, N. Y. $22,850; R. W. McCready, Tuxedo Park, N. Y., $23,000; R. T. Ford Co., Rochester, N. Y., $24,783; Peter Keeler Building Co., Albany, N. Y., $25,399.

✚BUFFALO, N. Y.—St. Matthew's Church, Rev. George Sellinger, pastor, 44 Schuele Ave., has let contract for church edifice, 70 × 180 ft., on Seneca St. and rectory, 36 × 52 ft., on Wyoming Ave. to FRANK HANSELL, 130 South Park Ave., at $36,500.

BUFFALO, N. Y.—The Marine National Bank, 224 Main St., will probably erect a 10 or 12-story office building at the northeast corner of Main and Seneca Sts. Green & Wicks, 110 Franklin St., Buffalo, N. Y., are the Archs. The estimated cost is $700,000.

PORT CHESTER, N. Y.—R. W. Foote, 902 Chapel St., New Haven, Conn., has completed plans for a brick warehouse, 75 × 93 ft., for the New York & Stamford Ry. Co.

NIAGARA FALLS, N. Y.—St. Mary's Hospital will erect new hospital buildings, 4, 5 and 6 stories in height, and a power plant and boiler house from plans of W. P. Ginther, Akron, Ohio. Estimated cost, $200,000.

ROCHESTER, N. Y.—Gordon & Madden, Sibley Bldg., are preparing revised plans for a church and school building, 60 × 130 ft., of stone and brick, to be erected at Flower City Park by the Church of the Sacred Heart. Estimated cost, $75,000.

NEW YORK, N. Y.—Bids will be received by C. B. J. Snyder, Supt. of Bldgs., until May 22, for alterations, repairs, etc., at Public Schools 2, 4, 10, 13, 27, 30, 32, 39, 40, 46, 77, 107, 130, 131, 136, 142, 146, Manual Training High School and Manual Training High School Annex, in the Boro. of Brooklyn.

NEW YORK, N. Y.—The general contract has been awarded to the TURNER CONSTRUCTION CO., 11 Broadway, for the construction in reinforced concrete throughout of a 5-story building, 229 × 56 ft., with tower 13 × 26 ft., seven stories high, and also including a 1-story and basement garage, 22 × 70 ft., for Wood & Brooks Co., manufacturers of piano keys, Tonawanda, N. Y. Dwight Seabury, Engr. Work to go ahead at once.

James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has rejected all bids recently received for the construction of a Barge Office in New York City, as being in excess of the appropriation. The work will be readvertised at a later date.

The A. & E. Construction Co. has purchased a site, 142-144 West 26th St. from Thomas F. Haughran for the erection of a 12-story loft building.

According to reports, bids have been asked for 5,000 tons of structural steel for the New York Telephone Building.

✚The general contract has been awarded to ROBERTS, POLLOCK CO., 118 East 28th St., for the erection of a 1-story brick church at Rutherford pl. south of 17th St., for the St. George's Church Corporation, 209 East 16th St. The estimated cost is $50,000. Plans were prepared by M. L. & H. G. Emery, 68 Bible House, New York.

Plans are being prepared by A. Fillmore Hyde, Fourth Ave. Bldg., Fourth Ave. and 27th St., for the erection of a 20-story building at Madison Ave. and 25th St. Charles A. Valentine, 1 East 27th St., is preparing plans. The general contract is held by the CAULDWELL-WINGATE CO., 381 Fourth Ave., New York City.

Plans have been prepared by Denby & Nute, 334 Fourth Ave., for the erection of a 12-story elevator apartment building at 60th St. and Park Ave. The estimated cost is $340,000.

Plans will be prepared by George Fred. Pelham, 507 Fifth Ave., for the improvement to the frontage on Morningside Ave. with a 12-story apartment building on 119th St. The West Side Construction Co., 314 West 100th St., is the owner.

Plans have been completed by McKim, Mead & White, 160 Fifth Ave., for the construction of a home for Columbia College. The building will be four stories high, of brick and limestone construction.

A 12-story structure will be erected by William Iselin & Co. at the corner of Fourth Ave. and 26th St., on a site owned by the Ogden Estate.

A 9-story apartment building will be erected at 104-110 East 40th St. by the Ferguson Bros. & Forshay Engineering & Construction Co.

Plans are being prepared by Wallis & Goodwillie, 364 Fourth Ave., for the erection of a 12-story loft and store building to be erected at Madison Ave. and 32d St. The Empire Holding Co., 1182 Broadway, is the owner. The estimated cost is $150,000. The general contract is held by the GEORGE BACKER CONSTRUCTION CO., 62 West 45th St., New York City.

George F. Johnson, Riverside Drive and 72d St., will erect a 3-story loft building at Second Ave. and Second St. Plans have been prepared by George Keister, 12 West 31st St. The estimated cost is $50,000.

Plans have been prepared by Neville & Bagge, 217 West 125th St., for the construction of a 5-story tenement building on the south side of 158th St., east of Broadway. The cost is $175,000. The Gross & Herpener Co., 558 West 158th St., is owner.

✚The contract has been awarded to the GEORGE A. FULLER CO., 111 Broadway, New York City, for the erection of a 10-story business building. The Sternau & Co., 195 Plymouth St., is owner.

A 9-story apartment house will be erected by Ferguson Bros. & Forshay at 104th to 110th Sts. The plot adjoints the southeast corner of Park Ave. The owners intend to have the foundations and superstructure made extra heavy, so that at any time extra stories may be added and the building remodeled into a hotel.

Plans have been filed by John P. Leo, 770 St. Nicholas Ave., as owner and architect, for the construction of two 5-story tenement buildings on the northeast corner of Southern Boulevard and 179th St. The estimated cost is $60,000.

Thomas W. Lamb, 501 Fifth Ave., has filed plans for the erection of a 7-story office and loft, with store, at 236-242 West 42d St. Sol. Bloom is the owner. The estimated cost is $125,000.

Hoppin & Koch have filed plans for the construction of a 4-story fireproof police station of the Eighth Precinct on the southeast corner of Beach and Varick Sts. The facade will be of brick, terra cotta and limestone. The house will make room for 52 horses of the downtown traffic squad. The cost is placed at $150,000.

The Guaranty Trust Co. has purchased from the Mutual Life Insurance Co. a site on the southeast corner of Liberty St. for the purpose of erecting a structure. Plans have been nearly completed. An expenditure of about $4,000,000 will be involved.

A 1-story chapel will be erected by St. George's congregation on the west side of Rutherford Pl., south of 17th St. The Rev. Hugh Brickhead. The estimated cost is $50,000. M. L. & H. G. Emery, Bible House, New York, N. Y.

Shampan & Shampan, 772 Broadway, are preparing plans for the construction of a 5-story building at the southeast corner of Metropolitan and Bushwick Aves., Brooklyn. The estimated cost is $60,000.

NEWARK, N. J.—Aaron F. Ordway will erect a 12-story brick store and office building at 207 Market St. It will measure 24 × 132 ft., and will be of brick and steel fireproof construction. The estimated cost is $183,000. John J. & Wilson Ely are the Archs.

NEWARK, N. J.—Wm. E. Lehman has prepared plans for the construction of a brick apartment house for Levi Weingarten at Clinton Ave. and Stratford Pl. It is to be five stories and to measure 111 × 90 ft., there being accomodations for 30 families. The estimated cost is $175,000.

✚NEWARK, N. J.—The Public Service Ry. Co. awarded to F. D. HYDE the contract for building the proposed new carhouse on the north side of Springfield Ave., near 43d St. The contract price is about $150,000.

✚FAR HILLS, N. J.—The general contract has been awarded by W. G. Ladd, 31 Nassau St., New York City, to CHARLES F. WILLS, 286 Fifth Ave., New York, for the erection of a fireproof dwelling here. Plans were prepared by Guy Lowell, 225 Fifth Ave., New York City.

✚PASSAIC, N. J.—The contract has been awarded to the J. J. O'LEARY Co., People's Bank Bldg., Passaic, N. J., at $100,000, for the erection of a brick church at Monroe and Third St. Plans were prepared by John Bergensen, 212 West 123d St., New York City.

✚JOHNSTOWN, PA.—GEORGE SCHENCK & CO., Butler, Pa., has been awarded the contract to construct the United Brethren Church. The cost is $87,371.

PHILADELPHIA, PA.—Plans have been completed by Sauer & Hahn for a 5-story apartment house, 44 × 118 ft., to be built on the north side of Baltimore Ave., 194 ft. west of 40th St., for the Tudor Realty Co.

Plans were filed recently with the Bureau of Building Inspection by Emil J. A. Thelenberg for the erection of a 3-story flat house, 33 × 147 ft., to be built on the east side of 63d St., north of Race St.

Frank C. Koenig, Philadelphia, Pa., is preparing plans for a vaudeville theater, to cost $100,000, which is to be built at Frankford and Allegheny Aves.

✚The contract for the Girls' Catholic High School, to be built on the east side of 19th St., between Wood and Carlton Sts., has been awarded to THOMAS REILLY by Ballinger & Perot, Archs. The structure will be of concrete and terra cotta, three stories high. It will cost about $200,000.

✚The contract has been awarded to the GENERAL CONSTRUCTION CO., Philadelphia, Pa., for the erection of a 4-story apartment building and nine 3-story dwellings in Germantown. The cost is $250,000. Plans were prepared by John D. Allen, Betz Bldg., Philadelphia, Pa.

PITTSBURG, PA.—Plans have been prepared by D. A. Crone, Henry W. Oliver Bldg., for the erection of separate 2-story brick flat buildings to be erected on a lot 75 × 75 ft., at Rose and Vine Sts., Hill district, for Isaac Sachs. The buildings will provide eight suites of four rooms and bath each.

✚WILKES-BARRE, PA.—The SAX & ABBOTT CONSTRUCTION CO., Hale Bldg., has been awarded the contract for the erection of a school. The cost is $101,000.

WILKINSBURG, PA.—O. M. Topp has prepared plans for a stone addition to the Second Presbyterian Church, of Wilkinsburg, to be erected at Mulberry and South Aves., at an estimated cost of $50,000.

DOVER, DEL.—Bids will be received for the construction of a stone, terra cotta and brick bank building at King and Lockerman Sts. until May 15. The First National Bank is the owner.

BALTIMORE, MD.—An office building will be erected on South St., opposite German St., by the Maryland Insurance Agency Co. Col. Charles T. Le Viness, Jr., is Pres. The probable cost is $200,000.

✚WASHINGTON, D. C.—Samuel W. Woodward will erect at once another apartment house, and has awarded a contract to S. H. EDMONSTON for its erection at 1830 Fourth St., Northwest. The cost is $60,000.

According to press report, a large hotel will be erected at Washington. It will be called the "Powhattan," and is to stand on 18th St., two blocks west of the White House, in close proximity to the Metropolitan Club. The structure is to be of Colonial design. The entire operation will involve an expenditure of about $300,000. The Lewis Hotel Co. is interested.

Representative Kopp has prepared bills providing for purchase of sites and erection of public buildings at Lancaster and Reedsburg. The bills carry an appropriation of $40,000 for each city.

ROANOKE, VA.—According to press reports, a stock company has been organized for the purpose of building a theater in the heart of the business section at a cost of $75,000. The property has been purchased, and plans are being drawn for the structure, work on which will commence within the next month. The theater will be modeled after the Keith houses, and it will be devoted to vaudeville. W. P. Henritze is Secy.

GREENBORO, N. C.—Bids will be received by F. M. Winchester, M.D., until May 18, for the construction of a masonic home. Hook & Rogers, Charlotte, N. C., are the Archs.

BEAUFORT, S. C.—J. B. Kinghorn, Clk., will receive bids until May 15 for the erection of a town hall.

✚LA GRANGE, GA.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of a U. S. post-office at La Grange, Ga., to the PEARSON CONSTRUCTION CO., Dothan, Ala., at $46,800.

✚FAYETTE, ALA.—The contract has been awarded to the LITTLE-CLECKLER CONSTRUCTION CO., Anniston, Ala., for the construction of a court house. The cost is $58,347.

NEW ORLEANS, LA.—According to an announcement by the Rev. Father Lorent, Vice-Provincial of the Spanish Province of New Orleans, a Dominican university, the only one of its kind in the United States, is to be erected here, at a probable cost of $200,000.

JACKSON, KY.—Bids will be received until May 17 for the construction of 21 houses in Breathitt County, Ky. Plans and specifications may be obtained from R. C. Williams, County Supt. of Schools.

CINCINNATI, OHIO.—Bids will be received by John E. Cleland, May 19, for constructing a branch library on Commerce St. and Nowland Ave.

COLUMBUS, OHIO.—Bids will be received by the Board of Education until May 20 for erecting two schools. E. E. Pruett, Y. M. C. A. Bldg., Columbus, is Arch.

MARTINS FERRY, OHIO.—Congressman W. B. Francis of the 16th Ohio District, has introduced a bill in the National House of Representatives to appropriate $100,000 for a post-office building.

TOLEDO, OHIO.—E. B. Fallis, Nasby Tower Bldg., Toledo, Ohio, is preparing plans for a 1-story municipal market, 500 × 250 ft., to be located at Erie and Short Sts. for the City of Toledo. Building to be of concrete and steel construction. Cost, $100,000.

INDIANAPOLIS, IND.—Emmons Brown, 919 Park Ave., is preparing to ask for bids for the erection of a large tenement building. Hastings & Gardner are Archs.

John E. Cleland, Business Dir. for the School Bd., is asking for bids for the construction of a school building on Ashland Ave. and Thirteenth St. Bids will also be asked in a few weeks for the erection of a new school building in Haughville and four-room additions to schools 39 and 50 on Lexington and Germania Aves.

John E. Cleland, Business Dir. for the School Bd., will receive bids until May 29 for the erection and completion of a branch library building on Commerce St. Separate bids will be received for the heating plant, for the plumbing, the wiring, for the fixtures and for the library furniture. W. B. Parker is Arch.

ROCKPORT, IND.—The Board of County Commissioners will receive bids until June 6 for the construction of a poor asylum. Thomas H. Axton is Chn.

HART, MICH.—Bids will be received by the School Board until May 15 for the erection of a school, including heating, plumbing, etc.

DETROIT, MICH.—The garage and salesrooms of the McIntosh Automobile Sales Co., at 197 Jefferson Ave., was damaged to the extent of $60,000 by fire on May 1. The building was a 3-story brick building and will be rebuilt.

CADILLAC, MICH.—The County of Wexford contemplates erecting a new courthouse and is in the market for plans for same. Address Felix H. Flynn, County Clk., Cadillac, Mich.

JACKSON, MICH.—L. H. Field, Jr., 8 Field Bldg., has awarded the general contract for the 4-story and basement association building for the Y. W. C. A., care F. D. Bennett, Y. W. C. A. Bldg. General contract let to NORTH & BRADSHAW, Jackson, Mich. Cost, $50,000.

CHICAGO, ILL.—According to press reports, the Wheeler Corrugating Co. is making arrangements for the erection of a warehouse on Campbell Ave. and Harvard St. The estimated cost is $150,000.

MILWAUKEE, WIS.—William Schuchardt is preparing plans for a 5-story building, to be erected at Broadway and Michigan St. by Friend Brothers and occupied by the Middleton Manufacturing Co., replacing the one recently destroyed by fire. The building is to be 40 × 150 ft.

Bids will be received by the Board of Trustees of the Milwaukee Hospital for the construction of an addition until May 15.

The Milwaukee County Board of Supervisors has voted to employ Allan D. Conover, Madison, Wis., as Consult. Engr. for the construction of a new house of correction, to cost about $350,000. Competitive designs will be asked for in about four weeks' time. Martin Plehn is County Clk.

✚The general contract for the erection of the new banking house for the Marshall & Ilsley Bank, on East Water St., between Wisconsin and Mason Sts., was awarded to PAUL RIESEN & SONS, general contractors, University bldg., Milwaukee. Brust & Philipp, Camp Bldg., are Archs. The structure will be four stories high, 65 × 250 ft., of stone and brick construction. Cost, $275,000.

MILWAUKEE, WIS.—The Bd. of Directors of Columbia (formerly Knowlton) Hospital, 830 Sycamore St., has purchased a site of 15 acres at Hartford Ave., Frederick St., Kenwood Boul. and Cramer St. and voted to raise $750,000 for the purpose of constructing a new hospital plant, along the lines of Johns Hopkins, Baltimore; Lakeside, Cleveland, and Brigham, Boston. John W. Mariner is Pres.; Dr. H. V. Ogden and Dr. Ernest Copeland, members Executive Staff.

Martin Plehn, County Clk., Milwaukee, Wis., will receive competitive designs accompanied by complete specifications and estimate of cost for the school plant of the proposed Milwaukee County School of Agriculture and Domestic Economy until noon, June 5. Arthur H. Peabody, Madison, Wis., is Consult. Engr. Cost, about $275,000.

H. Schmitt & Son, Genl. Contrs., Milwaukee, have the contract for the construction of a $55,000 residence and $8,000 garage at Marietta and Linwood Aves. Owner's name withheld.

✚AMES, IOWA.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office building at Ames, Iowa, to the GEORGE W. STILES CONSTRUCTION CO., Rookery Bldg., Chicago, at $44,748.

FARIBAULT, MINN.—Bids were received as follows on May 9 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a U. S. post-office building at Faribault, Minn.: W. D. Lovell, Minneapolis, Minn., $59,000; Northwestern Construction Co., Wahpeton, N. Dak., $59,500; J. W. Miller, St. Paul, Minn., $61,310; Boyd Construction Co., St. Paul, Minn., $69,925; Harmon Bros., Williamsport, Pa., sandstone, $70,766.; limestone, $68,100; P. M. Hennessey Construction Co., St. Paul, Minn., $58,500; William O'Neill & Son, Faribault, Minn., $56,552. All bids are on limestone instead of sandstone, unless otherwise specified.

DULUTH, MINN.—Vernon J. Price & Co. are preparing for the construction of a 3-story church. The estimated cost is $60,000.

NORTHFIELD, MINN.—Bids will be received by the Building Committee until May 16 for constructing a fireproof dormitory for St. Olaf College. Alban & Hausler, Chamber of Commerce Bldg., St. Paul, Minn., are Archs.

THIEF RIVER FALLS, MINN.—Bids will be received by A. H. Fasel, County Audr., for remodeling the court house until May 15.

ARKANSAS CITY, KAN.—Bids will be received by the Board of Education until May 15 for constructing a fireproof school. H. P. Nielsen, 501 Jackson St., Topeka, Kan., is Arch.

TOPEKA, KAN.—The Board of County Commissioners will receive bids until May 12 for the construction of a brick exhibition building on the fair grounds. S. G. Zimmerman is County Clk.

WELLINGTON, KAN.—Plans and specifications are being prepared in the office of James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a U. S. post-office building at Wellington, Kan.

✚BROKEN BOW, NEB.—The Board of County Supervisors awarded the contract for erecting a court house to GEORGE A. SHAUL, Seneca, Kan., at $59,972. Noted on April 13.

LEAD, S. DAK.—Plans and specifications are being prepared in the office of James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a U. S. post-office at Lead, S. Dak. Bids for this work were received at an earlier date, but were rejected on account of being in excess of the appropriation.

LANGDON, N. DAK.—The Board of Education will receive bids until May 25 for the construction of a high school. Harby & Gillespie, Fargo, N. Dak., are Archs.

YELLOWSTONE PARK, WYO.—Bids will be received by Major Lloyd M. Brett, Acting Supt. of Yellowstone National Park, until May 24 for the erection of an administration building within the Yellowstone National Park. Drawings and specifications to be had on application to the Acting Supt.

CARROLLTON, MO.—Bids will be received by the Board of Education until May 12 for constructing two schools here. Sanneman & Van Trump, Kansas City, are Archs.

MOBERLY, MO.—Plans have been prepared for the construction of a 10-story building at Reed and Williams St.

EL PASO, TEX.—See item under Light, Heat and Power. Steel and brick power station.

GALVESTON, TEX.—Bids were received as follows, on May 6, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a quarantine station at Galveston, Tex.: E. Morgan, Savannah, Ga., $91,572; 330 days. Janssen & Zempter, Galveston, Tex., $94,200; 200 working days. C. L. Ryals, Galveston, Tex., $84,900; 270 days. Eskald & Alexander, New Orleans, La., $87,460; 240 days. M. C. Bowden, Galveston, Tex., $98,000; 180 working days.

✚McKINNEY, TEX.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of a U. S. post-office at McKinney, Tex., to JOHN BARDON, Fort Worth, Tex., at $4,940.

SAN ANTONIO, TEX.—Herbert S. Green, San Antonio, has been notified that his plans for a new hotel at Bryan, to cost $60,000, have been accepted. Work will begin soon.

TULSA, OKLA.—The Catholics of this city, at a cost approximating $65,000, have purchased a block of ground lying between Eighth and Ninth Sts., on Boulder and Cheyenne Aves., which is to be the site of a large church and school. The proposed church will have a tower 285 ft. high. With the school and other buildings, it is said, it will cost at least $250,000.

*OLYMPIA, WASH.—Drawings and designs will be received by the State Capitol Commission at Olympia, until 3 p. m., July 27, for a group of buildings to be erected on "Capitol Place," and for a Temple of Justice. E. W. Ross is Secy. (For details, see advertisement in this issue.)

LE GRANDE, ORE.—Plans and specifications are being prepared in the office of James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a U. S. post-office building at Le Grande, Ore.

OAKLAND, CAL.—Bids will be received by the Board of Public Works until May 22 for the erection of a city hall.

STOCKTON, CAL.—Arrangementsh are being made by the Southern Pacific R. R. Co. for the construction of a freight shed, to cost about $175,000.

✚SAN FRANCISCO, CAL.—Reid Bros., Call Bldg., awarded contract to STOCKHOLM & ALLYN, 180 Jessie St.; for constructing a 5-story store, hotel and apartment building on Geary St., for Emma G. Butler; $94,791.

SEAFORTH, ONT.—Bids will be received until May 29 by R. C. Desrochers, Secy. Pub. Wks. Dept., Ottawa, for the construction of a public building. Plans and specifications on application to H. J. Lamb, Dist. Engr., London, Ont., or Dept. at Ottawa.

MONTEREY, MEX.—Bids will be received until June 6 for the erection of a reinforced concrete building for the Bank of Laguna. The estimated cost is $150,000. Brubaker & Stern, Aetna Bldg., Indianapolis, Ind., are the Archs.

WATER SUPPLY—IRRIGATION.

(*✚Denotes a contract awarded.*)

✚FORT McKINLEY, ME.—The following contracts have been awarded for the installation of the chemical water-softening plant here: To the L. M. BOOTH CO., 116 Liberty St., New York, for plant complete except Item (4) at $6,320; to F. H. MARSHALL for Item (4). Bids were opened on April 15. List of bidders noted on May 4.

SPRINGFIELD, MASS.—We are officially advised that the item noted on May 4 to the effect that the city contemplated enlarging the water-works system at a cost of $9,000, is erroneous. No enlargement is being considered.

✚NORWICH, CONN.—The Bd. of Water Commissioners on April 15 awarded contracts for Section 1 of the pipe line to ARCHIBALD TORRANCE and for Section 2 to THOMAS DODD, both of Norwich.

GRANVILLE, N. Y.—Charles E. Collins, Consult. Eng., Drexel Bldg., Philadelphia, Pa., is preparing plans for improvements to the waterworks for the village, to consist of a new concrete reservoir, filtration plant, a pumping station of about 2,000 gallons per min. capacity and about two miles of 12-in. c. i. mains.

NEW YORK, N. Y.—Bids will be received until 3 p. m., May 16, by John W. Brannon, Pres. Bd. of Trustees of Bellevue and Allied hospitals, for all labor and material required for constructing and erecting a sprinkling equipment at Bellevue Hospital, Boro. Manhattan.

NEW YORK, N. Y.—Robinson & Knust, Archs., 105 West 40th St., New York, have filed plans for installing a 5,000-gallon water tank on the Seventh Regiment Armory roof. Estimated cost, $13,000.

NEW YORK, N. Y.—Bids will be received by Henry S. Thompson, Comr. Water Supply, Gas and Electricity, until 2 p. m., May 19, for furnishing, delivering and laying water mains and appurtenances in Belmont, Clarke, Henry, Jersey, Nautilus, Oak, Second, Smith, Third, Varian, Vine, Washington and Woodstock Sts.; Bayview, Bidwell, Bismark, Brighton, Burger, Chestnut, Clifton, Deems, Excelsior, Fisk, Forest, Huguenot, Indiana, Jewett, Laurel, Leonard, Lincoln, Maine, Maryland, Meisner, Neal Dow, Nelson, New York, Oakland, Pleasant, Sea, Sharrott, St. John, Tompkins, Van Pelt, Vista, Wardwell, Washington, Waters, Westervelt, Willard, Winant and Woodvail Aves.; Annadale, Bloomingdale, Clove, County House, Fresh Kills, Harbor, Manor, Richmond Valley, Shore Todt Hill and Watchogue Roads; Alabama, New York, Ohio and Washington Places; Jefferson and Southfield Boulevards; The Boulevard, Broadway, Gifford's Lane, Ocean Terrace and Richmond Turnpike; and removing existing water mains and appurtenances in Jersey St.; Forest, Jewett, Maryland, Sharrott and Westervelt Aves., Todt Hill Road, and Richmond Turnpike.

WATERFORD, N. Y.—The Waterford Water Works Co. is having plans prepared for a new plant, to cost about $50,000.

BRIGHTON, N. J.—The City Council has authorized the issuance of $75,000 of bonds for the construction of a water system.

*RAHWAY, N. J.—Bids were received by the Board of Water Commissioners on May 3 for furnishing and installing one 5,000,000-gallon horizontal, high-duty, cross-compound, crank and flywheel pumping engine. We are officially advised that the following bids were submitted: Wilson & Snyder Mfg. Co., Pittsburg, $21,000; Allis-Chalmers Co., Milwaukee, Wis., $13,950; Heisler Co., St. Marys, Ohio, $16,195; Cockburn Co., Jersey City, N. J., three bids, $19,220, $21,500 and $16,300; The Platt Iron Works Co., Dayton, Ohio, $17,900; Epping-Carpenter Co., Pittsburg, Pa., $14,600, $13,200, $13,100 and $12,700; Snow Steam Pump Co., Buffalo, N. Y., $14,335.

✚ZELIENOPLE, PA.—The contract has been awarded by the Borough to MARTIN SWAIN, of Zelienople, at $8,500, for the construction of reservoirs and an 8-in. rising main. Douglass & McKnight are Engrs., 1709 Union Bank Bldg., Pittsburg, Pa.

✚BALTIMORE, MD.—Bids were received on April 26 by the city for one 30,000,000-gallon, vertical, triple-expansion pump, boilers and other equipment at the Mount Royal pumping station. The contract has been awarded to the ALLIS-CHALMERS CO., of Milwaukee, Wis., at $166,336. Alfred M. Quick is Water Engr.

✚WASHINGTON, D. C.—The Commissioners of the District of Columbia have awarded contracts for 90 tons of c. i. water-pipe and specials to the STANDARD CAST IRON PIPE & FOUNDRY CO., Bristol, Pa., at $51.50 per gross ton, and 2411 tons c. i. water-pipe to the U. S. CAST IRON PIPE & FOUNDRY CO., 71 Broadway, New York, at $22.84 per gross ton. Noted on April 27.

The contracts for furnishing corporation and curb cocks have been awarded as follows: 4,000 ¾-in. corporation cocks to the GLAUBER BRASS MFG. CO., of Cleveland, Ohio, at 56.5 cts. each; 200 1½-in. corporation cocks to the A. P. SMITH MFG. CO., of East Orange, N. J., at $1.96 each; 250 ¾-in. lead flanged corporation cocks and 4,250 ¾-in. lead flanged curb cocks, for lead and pipe only, to the HAYS MFG. CO., of Erie, Pa., at 58.5 cts. and 63 cts. respectively. List of bidders noted on April 27.

WASHINGTON, D. C.—Bids are asked until 11 a. m., May 27, by the Bureau of Yards and Docks, Navy Dept., Washington, for the supply of air, steam, water and electric meters for use in the navy yards and naval stations.

CLAYTON, N. C.—Gilbert C. White, Consult. Engr., Durham, N. C., is preparing plans for the construction of water-works and sewerage here.

MOREHEAD, N. C.—The city has awarded the contract to the HARRIS HARDWARE CO., Washington, N. C., to construct water-works. Estimated cost about $20,000. Bids were opened on April 20.

FORT VALLEY, GA.—The city has voted $40,000 of bonds for the construction of water-works, etc.

COLQUITT, GA.—See item under Light, Heat & Power.

OCALA, FLA.—The city is considering the installation of a municipal water-works system.

GADSDEN, ALA.—The citizens have voted $50,000 of bonds for the completion of the water-works now under construction. Estimated cost of system complete, $150,000.

ARLINGTON, TENN.—The city is considering the installation of a water plant. Estimated cost, $6,000.

DYER, TENN.—The city ... voted $25,000 of bonds for the cons... ...n of water-works from plans by R. ... Houston, 1219 Central Bank Bldg., Mem... Tenn.

NEWPORT, TENN.—The ... has voted $50,000 of bonds for the ... ...uction of a gravity water-works system ...

LEXINGTON, TENN.—S... ...em under Light, Heat and Power.

NASHVILLE, TENN.—B... ...ll be received by the city until 3 p. ... May 16, for about eight miles of new w... mains. W. Southgate is City Engr.

SHELBYVILLE, KY.—Cha... E. Collins, Consult. Engr., Drexel Bldg., Philadelphia, Pa., is preparing plans for ... ...crete dam for the Shelbyville Water & ... ...t Co., of Shelbyville.

COLUMBUS, OHIO.—Bids w... ...e received by H. S. Holton, Dir. Pub. S... until May 22, for furnishing and deliv... 200 valves from 4-in. to 36-in.; and 10... lbs. each of pig lead and lead pipe f... ...e Water-Works Dept.

ELYRIA, OHIO.—Bids will ... ...eived by the city until May 12 for ha... and laying water mains.

SPRINGFIELD, OHIO.—Th... ...west bid submitted on May 1 to the B... of Public Service for laying a force m... from the old to the new pumping sta... was that of Patrick Caffery at 79 cts. ...t. The U. S. Cast Iron Pipe & Foundr... was the lowest bidder for supplying 87... ...ns of 20-in. pipe at $22.45 per ton.

TOLEDO, OHIO.—Bids will b... ...eived by the Director of Public Service ... May 23 for furnishing and constructin... ...ne rotary pump of 15,000,000 gallons da... capacity, direct connected to a vertical g... engine of sufficient capacity to operate u... producer gas and enable the specified req... ...ments of the pump to be complied with; also, one bituminous coal gas producer and accessories of approximately 400-HP. con... ...uous capacity.

SILVERTON, OHIO.—Bids will ... received by A. A. Sprague, Village Cl... until noon, May 22, for the construction of a system of 6-in. water mains and necessary appurtenances. Fred. Grillo is Engr.

✚TOLEDO, OHIO.—The contract for laying the high-pressure water main system has been awarded by the city to WATTERS & TANSEY, of Toledo, at $117,578. Other Bidders were: Breymann & O'Neill, Toledo, $118,888; M. O'Herron Co., Pittsburg, $117,937. Engineer's estimate, $121,000.

✚WHITING, IND.—Bids were opened on May 1 by the city for the construction of 14-in. water mains in 121st st., Indiana Boulevard and Clark St. The contract has been awarded to W. H. BRUNT, at $9,661. Other bidders were: Neydl & Greenwald, $10,055; T. H. Iglehart, $10,525.

ODELL, ILL.—Bids will be received by Theodore Trecker, Village Clk., until 7.30 p. m., May 12, for the construction of a deep well. Melluish & Broyhill are Engrs., Bloomington, Ill.

✚BURLINGTON, IOWA.—We are officially advised that the contract, bids opened on April 15, has been awarded to the MURRAY IRON WORKS CO., by the Citizens Water Co., for a direct-connected centrifugal pump and steam turbine, a water-works surface condenser and air pump and a 16-in. Venturi meter with register and chart recorder. Frank Lawlor is Supt.

SIOUX CITY, IOWA.—The City Clerk will receive bids until 10 a. m., May 20, for installing two triplex pumps and two gasoline engines.

*✚SIOUX CITY, IOWA.—Bids were received on April 22 by the City Clerk for the construction of a 100,000-gallon steel tank and tower, etc. The contract has been awarded to the KENNICOTT CO., Chicago Heights, Ill., at $4,846.

EVELETH, MINN.—D. P. McIntyre, City Clk., will receive bids until May 16 for the installation of a 2,500,000-gallon, high-duty, crank and flywheel pumping engine.

GOOD THUNDER, MINN.—A. F. Wendlandt, Village Recdr., will receive bids until 7.30 p. m., May 22, for the construction of a water tower and connection pipe.

CHERRYVALE, KAN.—The J. S. Worley Co., Reliance Bldg., Kansas City, Mo., is preparing plans for the construction of water-works.

✚HOISINGTON, KAN.—The contract has been awarded to BASH & GRAY, of Joplin, Mo., for constructing a water system here. Rollins & Westover are Engrs., Beals Bldg., Kansas City, Mo.

ANSELMO, NEB.—On April 25 the citizens, it is reported, voted for the installation of an electric light and water-works for the village.

*BATTLE CREEK, NEB.—Bids will be received until 8 p. m., May 22, by the Village Clerk for constructing a water plant. Estimated cost, $10,000. The Alamo Engine & Supply Co. is Engr., Omaha, Neb.

BRADLEY, S. DAK.—Bonds for $14,000 for the installation of a water-works system including a pumping house to cost $4,000 and mains to cost $10,000 have been voted by the citizens.

VERMILLION, S. DAK.—Fred W. Ford, Secy., Regents of Education, will receive bids until 4 p. m., May 23, for the construction of water-works for the State University.

BELLE FOURCHE, S. DAK.—Bids will be received at the office of the U. ... Reclamation Service, Newell, S. Dak., until 4 p. m. May 18, for the construction of approximately 39,000 lin. ft. of canal known as the "Townsite Lateral" Belle Fourche project, located in township 9 north, ranges 5 and 6 east.

✚GRAFTON, N. DAK.—The contract has been awarded by the city to M. T. PETERSON, of Madison, Wis., for drilling an artesian well here at $4 per ft.

FORT YELLOWSTONE, WYO.—Bids will be received until noon, May 31, by the Constructing Quartermaster, Fort Yellowstone,

for furnishing labor and material for constructing a pipe line from Panther Creek to a ... near Rustic Falls for the Fort Yellow... water system.

GLEN... E, MONT.—Bids will be received by C. ... Hurley, City Clk., until 8 p. m., May ... for building a concrete settling basin ... connection with the water plant.

ST. ..., MO.—Bids for furnishing c. i. co... water pipes, c. i. coated special castings, ... valves, post fire plugs and post ... plug top parts, to be delivered at the C... Pipe Yard, will be received by the city until noon, May 19.

Bids ... furnishing general and detailed drawings ... constructing and erecting in place, exclusive of foundations, at low-service pumping station, Chain of Rocks, two steam turbine driven centrifugal pumping units complete with condensing apparatus and all appurtenances, will be received by the city until noon, June 2.

✚KANSAS CITY, MO.—Bids were received on April 28 as follows by the Board of Fire and Water Commissioners for approximately 1,622 ... of c.-i. pipe, sizes from 6 to 48 ins., and 35 tons of special castings: American Iron Pipe Co., Kansas City, Mo., pipe, ... sizes, $27.45 per net ton; special castings, $60 per ton. U. S. CAST IRON PIPE & FOUNDRY CO., St. Louis, Mo., pipe, all sizes, $26.70 per net ton; special castings, ... per ton (awarded contract). Wynkop Kiersted, Kansas City, is Consult. Engr.

BRECKENRIDGE, TEX.—The Breckenridge Townsite Co. has let the contract to A. J. CURRY for the construction of a dam 900 ... long to form a large reservoir near here.

CLARKSVILLE, TEX.—The city will extend the water mains and make improvements to the pumping plant, bonds having been voted for the purpose.

COTULLA, TEX.—W. H. Millikin, of Tulsa, Okla., who has purchased the Black ranch of 22,000 acres near here, will construct a large system of irrigation upon the property and establish a town. He has also taken preliminary steps, it is reported, towards the construction of a railroad that will run between Aransas Pass and Eagle Pass, Tex., 300 miles, passing through his ranch.

GRAND FALLS, TEX.—The Consolidated Mutual Reservoir Co., it is reported, will soon award contracts for the construction of three large reservoirs for storing water for irrigation purposes. It is estimated that the construction of these reservoirs will involve the handling of more than 700,000 cu. yds. of earth and that the cost will be more than $250,000. This company recently acquired all the holdings of the Grand Falls Mutual Irrigation Co., the Big Valley Irrigation Co. and the Grand Falls Lake Reservoir Co., all situated in the Pecos section. The main canals of the consolidated company, leading from the Pecos River, will be enlarged and other improvements made.

VIAN, OKLA.—The city has voted $20,000 of bonds for water-works.

WELEETKA, OKLA.—The city has voted $45,000 of bonds for the construction of water-works and an electric light plant.

KENEFICK, OKLA.—The city will install a modern water-works system soon. It is estimated that the improvements contemplated will cost about $25,000. L. R. Freyer is Mayor.

✚MANGUM, OKLA.—The contract for extensions to the water-works mains has been let to MAYFIELD & SHAW, Lawton, Okla. Extensions will also be made to the sewer system. The entire work will cost about $15,000. J. H. Tomme is City Clk.; J. M. Blackburn is City Engr.

SAPULPA, OKLA.—All bids received on April 27 for water-works improvements here were rejected. New bids will be asked soon. The improvements contemplated will cost approximately $250,000. Ira A. Anderson is City Clk. Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., are Engrs.

✚ALAMOSA, COLO.—The city has awarded the contract for constructing water-works to MARSHALL BROS., of Las Animas, Colo., at $74,000. Noted on March 30.

TUCUMCARI, N. MEX.—The taxpayers have voted to acquire the local water-works plant and distributing system. Bonds for $75,000 will be issued for the purpose of paying for the plant and making improvements and extensions. Noted on March 16.

M. B. Goldenberg and associates, of Tucumcari, who are preparing to construct a large system of irrigation near here, are having a survey made with the view of determining the feasibility of running a tunnel through the range of hills two miles east of the proposed dam site and conveying the water through it. The dam will be constructed at Pajarita, ten miles from here.

...ILO, IDAHO.—The City Council is considering the installation of a water-works system.

ELMA, WASH.—Louis C. Kelsey, Consult. Engr., Selling Bldg., Portland, Ore., has been engaged by the city to prepare plans, specifications and estimates for increasing the water supply.

MEDFORD, ORE.—The council has awarded to the JACOBSON-BADE CO. the contract to lay water mains on East Main, Roosevelt and Queen Anne Sts.

HERMISTON, ORE.—John T. Whistler has been engaged by the City Council to make a survey of the city and report on the most feasible plan for a water system. One proposition the Council is now considering is to secure some private company to install a water system, granting a franchise similar to that now held by the electric light company.

TOLEDO, ORE.—Bids will be received by the city until 7.30 p. m., May 15, for constructing a gravity water-works system. Estimated cost, $19,000. Stannard & Richardson are Engrs., 410 Henry Bldg., Portland, Ore.

ELGIN, ORE.—The City Council is considering the construction of improvements to the water-works system. N. Hackett is interested.

✚VALLEJO, CAL.—The contract for installing a pipe line or circulating loop at the Mare Island navy yeard, Vallejo, has been awarded to GRANT FEE, Monodnock Bldg., San Francisco, Cal., at $39,000.

HARRISTON, ONT.—Bids will be received until May 25 by the city for excavation and pipe laying for the water-works system. Bowman & Connor, Berlin, Ont., are Engrs.

TORONTO, ONT.—Bids will be received until noon, May 23, by G. R. Geary, Mayor and Chn. Bd. of Control, for the supply of 3,000 ft. or any quantity between 3,000 and 3,500 ft. of steel pipe, 72 ins. in diameter, for the water-works intake.

✚WELLAND, ONT.—The Water-Works Commissions have let a contract to the CANADIAN BOVING CO., Toronto, Ont., for a new pump and turbine wheels, including crane, etc., at $12,300. About $75,000 will be expended in increasing the capacity of the water-works plant.

SOUTH VANCOUVER, B. C.—The city will receive bids for 42 miles of 4-in. and eight miles of 6-in. steel pipe; and for furnishing 45,000 ft. of ½-in. and 20,000 of ¾-in. g.-i. pipe; 4,400 brass cocks, 300 fire hydrants, and special castings, and pig lead.

MELVILLE, SASK.—See "Light and Power Plants."

SEWERS.

(*Denotes that this work is advertised in Engineering News.)

*ADAMS, MASS.—Bids will be received by the Bd. of Selectmen of Adam, Mass., May 20, for furnishing materials and labor for construction of sanitary sewers. The work will consist of approximately 40 ft. of 18-in., 200 ft. of 14-in. c. i. pipe, 2,500 ft. of 18-in., 1,500 ft. of 15-in., 100 ft. of 10-in., 200 ft. of 8-in. and 3,000 ft. of 5-in Akron pipe, 10 manholes and 8 catch basins. (For details see advertisement in this issue).

BOSTON, MASS.—Bids will be received until May 15 by Louis K. Rourke, Comr., for sewer pipe and drains and tar macadam roadway in Emmet St., Brighton District.

PALMER, MASS.—Bids will be received by the Selectmen until May 11 for the installation of sewers in various streets. W. H. Brainard, Palmer, Mass., is Engr.

BINGHAMTON, N. Y.—Bids will be received by the Bd. of Contract and Supply until May 24 for the installation of sewers in various streets.

OSSINING, N. Y.—Bids will be received by the Board of Trustees until 8 p. m., June 6, for constructing the Kill Brook Trunk Sewer, together with bulkhead dock and screening chamber at outfall end and also Water St., Barlow Lane and Mill St. trunk sewer. J. M. Terwilliger is Clk of Village.

BUFFALO, N. Y.—The City Council has ordered the construction of a 10-inch tile sewer in Potomac Ave., between Chapin Parkway and Delaware Ave.; a 10-in. tile sewer in Worcester Pl., between Kensington and Leroy Aves., and a 12-in. tile sewer in Newfield St., between Roesch Ave. and O'Neil St.

The City Council has ordered the construction of a 24-in. brick sewer in Sessions Ave., from Delaware Ave. 900 ft. east; tile sewers, 18, 15, 12 and 10-in., in Kenmore Ave., between Elmwood Ave. and Eugene St., and 10-in. tile sewers in Nebraska Ave.

BLAUVELT, N. Y.—See item under buildings.

CANANDAIGUA, N. Y.—Bids will be received until May 16 by Dr. P. Warner, Pres. Bd. of St. Comrs., for the installation of a sanitary sewer.

FORT HAMILTON, N. Y.—The Constr. Q. M., U. S. A., will receive bids until June 2 for the construction of a sewer.

HERKIMER, N. Y.—Sewer extensions will probably be made in the following streets and avenues: Smith St., from Bellinger to Mohawk St.; Bellinger St., from Smith to Steele St.; Dewey Ave., from Smith to Steele St.; Steele St., from Bellinger to South William St.; German St., from Bellinger to Church St.; Prescott St., from German to Hydraulic Canal; Margaret St., from Park Ave. to Northern limit; Henry St., from Park Ave. to Northern limit; Caroline St., from Park Ave. to Bellinger Ave.; Green St., from Hydraulic to Harter St.; Steuben St., from Albany to Folts St.; Harter St., from Green to German St.; Folts St., from Hydraulic to Harter St.; Lansing St. entire length; Park Ave., from Bellinger to Caroline St.

✚ROCHESTER, N. Y.—The Board of Contract and Supply awarded a contract to RIPTON & MURPHY, 12 Lamberton Park, at $169,804, for the construction of a sewer, in the third section. F. X. Pifer, 37 City Hall, is Secy.

*ENGLEWOOD, N. J.—Bids will be received at the office of the Englewood Sewerage Co., at 3 p. m., June 3, for furnishing all material and doing all work necessary to the complete construction of a sewage disposal works. Plans and specifications may be seen at the office of Clyde Potts, 30 Church St., New York. Oliver Drake Smith is Secy. (For details see advertisement in this issue).

GARFIELD, N. J.—The Committee on Sewers of the Borough Council will receive bids until May 19 for the installation of sewers. Wise & Watson, 34 Bloomfield Ave., Passaic, N. J., are Engrs.

*SUMMIT, N. J.—Bids will be received by the Common Council, Summit, N. J., until 8.30 p. m., May 16, for the construction of 2,108 lineal ft. of vitrified pipe sewer in Beekman Road, from the end of the existing sewer easterly to a point about 300 ft. east of Fairview Ave. and in Fairview Ave., from Beekman Road about 700 ft. southerly. J. Edward Rowe is City Clk. (For details see advertisement in this issue.)

INGRAM (Pittsburg post-office), PA.—Bids will be received until May 15 for laying an 8-in. sewer in Stanley Ave., by D. H. Harner, Boro. Clk., McKee St., Ingram, Pa. John Murry is Boro. Engr.

*BALTIMORE, MD.—Bids wil be received until 11 a. m., May 24, by J. Sewell Thomas, City Register, City Hall, Baltimore, Md., for constructing the office and laboratory building, at the Back River disposal works; and for constructing sanitary lateral sewers in District 36-A; as shown on plans on file in the office of Mr. Calvin W. Hendrick, Ch. Engr., of the Sewerage Comn. For details see advertisement in this issue).

EASTON, MD.—Bids were received on April 15, as follows, by the Sewer Commission for labor and materials necessary to construct about six miles of pipe sewers from 8 to 15 ins. in diameter, with Y branches, manholes, flush tanks and other necessary appurtenances; also two disposal plants, including necessary piping, grading, etc.: Heins & Hayman, Baltimore, Md., $37,011; United Paving Co., Atlantic City, N. J., $39,117; Coryell Construction Co., Williamsport, Pa., $40,239; B. F. Sweeten & Son, Camden, N. J., $40,262; David M. Andrew Co., Baltimore, Md., $40,733; Hall & Wornx, New York, N. Y., $41,285; J. B. O'Rourke & Co., Boston, Mass., $42,877; Martin & Miller, Roselle Park, N. J., $44,311; W. H. & C. F. Thompson, Baltimore, Md., $45,312; Kingdon Construction Co., Baltimore, Md., $46,353; William C. Evans, Ambler, Pa., $51,867.

FREDERICK, MD.—The Mayor and Board of Aldermen will receive bids until May 24 for sewer construction, 6 to 42-in. J. Edward Schell is Mayor.

WASHINGTON, D. C.—Bids were received as follows on May 8 by the Commissioners of the District of Columbia for the construction of sewers in the District: (a) George Hyman; (b) Warren F. Brenizer Co.; (c) James A. Coyle, all of Washington, D. C. Section H, East Side Intercepting Sewer, boundary to Brookland, Section 1: Ordinary excavation, (a) 80 cts., (b) $1.40; concrete masonry "D," (a) $8.50, (b) $10; vitrified brick masonry, (a) $25, (b) $22; sewer brick masonry, (a) $20, (b) $18. Section 2: Ordinary excavation, (a) 60 cts., (b) 75 cts.; concrete masonry "D," (a) $7.25, (b) $8; vitrified brick masonry, (a) $20, (b) $21; sewer brick masonry, (a) $14, (b) $14. First St., S. E., trunk sewer: Ordinary excavation, (a) 75 cts., (b) 80 cts.; concrete masonry "B," (a) $7, (b) $7; concrete masonry "D," (a) $6.50, (b) $6.50; vitrified masonry, (a) $20, (b) $21; sewer brick masonry, (a) $14, (b) $13. Sewer in First St., S. E., between P & N Sts.: Ordinary excavation, (a) $1.75, (b) 95 cts., (c) $1; sewer brick masonry, (a) $15, (b) $13, (c) $14; 12-in. diameter pipe sewer, (a) 75 cts., (b) 70 cts., (c) 80 cts.

*PENSACOLA, FLA.—Bids were received as follows, by the Board of Bond Trustees, City Hall, May 2, for constructing storm water drains and sanitary sewers: (Brick sewer), McCarten & Co., Birmingham, $73,237; J. W. Gurley, Mobile, $77,232; McCaulley Manton Co., Brooklyn, $78,295; A. L. Patterson, New Orleans, $82,487; Meeks-Dunn, Atlanta, $128,018; Bryan & Co., Jacksonville, $94,570; Guild & Co., Chattanooga, $97,281; W. W. Hatch, Pensacola, $87,999; H. Monk, Pensacola, $95,823; (Storm water and sanitary sewer), J. W. Gurley, Mobile, $77,232; McCaulley Manton Co., Brooklyn, $91,287; A. L. Patterson, New Orleans, $87,833; Meeks-Dunn, Atlanta, $128,008; Bryan & Co., Jacksonville, $85,820; H. Monk, Pensacola, $88,925; A. F. Helms, Cleveland, $95,224. (Reinforced concrete pipe sewer), McCarten & Co., Birmingham, $81,463; J. W. Gurley, Mobile, $77,232; McCaulley Manton Co., Brooklyn, $88,923; A. L. Patterson, New Orleans, $78,853; Sullivan-Long, Bessemer, $106,825; Meeks-Dunn, Atlanta, $126,465; Bryan & Co., Jacksonville, $91,183; Guild & Co., Chattanooga, $85,091; W. W. Hatch, Pensacola, $98,636; H. Monk, Pensacola, $88,587; A. F. Helms, Cleveland, $104,616. The contract for reinforced concrete pipe sewer was awarded to J. W. GURLEY, Mobile, Ala., at $19,617. (Terra cotta pipe sewer), McCarten & Co., Birmingham, $11,411; J. W. Gurley, Mobile, $11,469; McCaulley Manton, Brooklyn, $13,939; A. L. Patterson, New Orleans, $13,392; Sullivan-Long, Bessemer, $14,529; Meeks-Dunn, Atlanta, $27,098; Bryan & Co., Jacksonville, $12,623; Guild & Co., Chattanooga, $11,828; W. W. Hatch, Pensacola, $18,696; H. Monk, Pensacola, $12,797; A. F. Helms, Cleveland, $21,700.

*BELLEFONTAINE, OHIO.—Bids will be received by the Director of Public Service of Bellefontaine, Ohio, until noon, June 2, for furnishing all materials and performing all labor, for constructing the reduction tanks and primary contact beds, and for building outlet drains, and for furnishing and erecting all automatic controlling machinery. Plans and specifications are on file in the office of the Director of Public Service. (For details see advertisement in this issue).

*DAYTON, OHIO.—Bids will be received until noon, May 24, by the Director of Service for the construction of sewers. F. J. Cellarius is City Engr. J. C. Ely is Director. (For details see advertisement in this issue).

FAIRPORT, OHIO.—Bids will be received until noon, May 12, by Robert Meyers, Vil. Clk., for the construction of sewers in sewer district 1.

MT. GILEAD, OHIO.—Bids will be received until May 19 by the Board of Commisisoners of Morrow County for furnishing 8 to 48-in. culvert pipe.

BRAZIL, IND.—Plans and specifications are ready for bidders for the construction of the Ponges Run sanitary sewer and extensions to the Knight-Brinkeroff and the Mullen Black ledge factories. The specifications call for a concrete sewer 20,000 ft. in length and 3,000 ft. of sewer pipe. Frank Kattman is City Engr.

DETROIT, MICH.—The Common Council of the City of Detroit at their meeting of May 2 directed the Dept. of Public Works, J. J. Haarer, Comr., 104 City Hall, to advertise for proposals for constructing the following lateral sewers: No. 2213, in alley bounded by Newland, Crane, Warren and Moffat Sts.; estimated cost per lin. ft., $1.60. No. 2214 in alley in block bounded by Lawndale Ave. and Mullane St., Whittaker and Ferndale Aves.; estimated cost per lin ft., $1.25. No. 2215, in alleys in block bounded by Chippewa, Seneca, Warren and Moffat Aves.; estimated cost per lin ft., $1.60. No 2218, in alley, in block bounded by Elmwood, Moran, Sargeant and Griffin Sts.; estimated cost per lin ft., $1.50. No. 2219, in Grand River Ave., between Harrison and National Aves.; estimated cost per lin. ft., $1.50. No. 2221, in alley bounded by Stephens, Chippewa, Lambert and Duncan Sts.; estimated cost per lin. ft., $1.35. No. 2222, in alley in block bounded by Dexter, Wildemere, Columbus and Montgomery Sts.; estimated cost per lin. ft., $1.50. No. 2223, in alley in block bounded by Beechwood, Firwood, Ferndale and City Limits; estimated cost per lin. ft., $1.40. Lateral Sewer No. 2224, in alley in block bounded by Cooper, Pennsylvania, Chapin and Shoemaker Aves.; estimated cost per lin. ft., $1.35.

*SHERIDAN, ILL.—Bids will be received until noon, June 5, for the furnishing and installation of a sewage disposal plant, complete, including hydrolithic tank, filters, sludge beds, pumps, motors, electric pole line and connections, sewer main and outlet, etc., at Fort Sheridan, Ill., Capt. M. E. Saville, Constr. Q. M., U. S. A. (For details see advertisement in this issue).

✚KENOSHA, WIS.—The Common Council has awarded the contract for the construction of the concrete trunk sewer with brick invert to CLEARY, WHITE, NEWMAN CO., Chicago, Ill., at $97,200. The work consists of constructing approximately 5,000 ft. of 99.3-in. sewer, 1,200 ft. of 72-in. sewer and 1,200 ft. of 66-in. sewer. Bid of N. F. Reichert Co., Racine, Wis., at $81,000 originally recommended, released and withdrawn because of mistake in figures.

MILWAUKEE, WIS.—The Menomonee Sewage Commission, appointed Aug. 16, 1909 has submitted a final report to the City of Milwaukee and makes recommendations calling for an expenditure of approximately $13,255,000. The three most important recommendations are: Construction of a water filtration plant at intake, $1,500,000; construction of a series of intercepting sewers to concentrate at purification works, also to be constructed with outlet into Lake Michigan; construction of a flushing tunnel in Menomonee River, similar to those built in Milwaukee and Kinnickinnic rivers. Estimated cost of all works recommended for immediate construction, to be completed prior to 1915, is $4,997,000; estimated cost of all works recommended for completion by 1920, $7,210,000; for completion prior to 1950, $13,255,000. The report will be submitted to the Common Council at once. Mayor Emil Seidel proposes that 50-year bonds be issued immediately and that the work be begun without delay. Members of the commission are: John W. Alvord, Chicago; Harrison P. Eddy, Boston; George C. Whipple, New York.

AUSTIN, TEX.—Mayor A. P. Wooldridge has under consideration plans for the construction of an extensive sewer system for this city. It is probable that the private sewer system may also be taken over by the city.

GUTHRIE, OKLA.—Bids will be received until May 18 by Grant R. Hanford, City Clk., for the installation of sanitary sewers in Sewer districts 59 and 60.

SAN DIEGO, CAL.—P. E. Wood, Supt. of Ways and Means, will receive bids until May 15 for furnishing f. o. b. San Diego, 171,455 ft. 6 to 14-in. salt-glazed sewer pipe and 16,560 ft. of different sizes.

*TORONTO, ONT.—Bids will be received by the Board of Control, City Hall, until June 6 for pumps, vertical, electrically driven; motors and other electrical equipment, screens and cleaning apparatus, Venturi meters. G. R. Geary is Mayor. (For details see advertisement in this issue).

GARBAGE DISPOSAL.

(✚Denotes a contract awarded.)

NEW YORK, N. Y.—Bids will be received by W. H. Edwards, Comr. St. Cleaning, until noon, May 19, for furnishing all the labor and materials required for completing an abandoned contract for the final disposition of all ashes, street sweepings and rubbish that may be delivered on board of deck scows or other vessels at the waterfront dumps of the Department of Street Cleaning, Boro. Manhattan, on the Hudson River, and Clinton St. dump on the East River.

MOOSE JAW, SASK.—Bids will be received until 8.30 p. m., May 22, by W. F. Heal, City Clk., for an incinerator plant. J. M. Wilson is City Engr.

STREETS AND ROADS.

(*Denotes that this work is advertised in Engineering News.)

CONCORD, N. H.—We are officially advised that bids will be received until 1 p. m., May 19, for paving 3½ miles with native stone, in the town of Hinsdale, and until 1 p. m., May 22, for paving 4,500 ft. in the town of Bethlehem. Plans and specifications are on file at the office of H. C. Hill, State Engr., Concord.

BOSTON, MASS.—The lowest bid received on May 2 for paving in Geneva Ave., and constructing edgestones, gutters and crosswalks in Melville Ave., was submitted by James Doherty, at $23,805. Noted on April 27.

BOSTON, MASS.—The Park Square Real Estate Trust plans to pave with macadam about 120,000 sq. yds. of streets in the vicinity of the old Park Square Depot. Aspinwall & Lincoln, 110 Tremont St., are Engrs.

✚SPRINGFIELD, MASS.—The contract for paving Finn St., from North to Pearl St., was awarded on May 1 to DANIEL J.

WALSH, Pittsfield, Mass., at $2.58 per sq. yd. for Mack brick, a total approximating $10,320.

HARTFORD, CONN.—Plans have been received by the State Highway Commissioner for proposed road work, as follows: From A. S. Brainard, two sections of road in the town of Colchester on the Hartford-Norwich Turnpike, aggregating 10,067 ft.; from S. H. McKenzie, 2,950 ft. on Maple St., Cheshire; from W. H. Knight, 1,900 ft. in the Town of Sherman, and 6,835 ft. in the Town of Roxbury; from G. E. Smith, 3,800 lin. ft. on West St., Town of Seymour, and 3,825 ft. on the New Haven Turnpike, in the Town of Orange; from F. H. Oldershaw, 4,700 ft. on South Stanley St., in New Britain; from R. G. Pike, Jr., 6,600 ft. on Middlesex Turnpike, Town of Middletown; from J. S. Dickinson, 9,050 ft. in the Town of Lyme; from A. S. Brainard, 17,300 lin. ft. in the Town of East Windsor, 8,925 ft. in the Town of Hebron, and 33,450 ft. in the Town of Marlborough.

✚ALBANY, N. Y.—The Board of Contract and Supply has awarded contracts to GOLDSMITH C. STEPHENS, Albany, as follows: For the improvement of West Lawrence St., from Kent St. to Central Ave., at $11,947; for the improvement of West St., from West Lawrence to Allen St., at $7,593, and for the improvement of West Lawrence St., from Western to Madison Ave., at $1,942.

*AUBURN, N. Y.—Bids will be received by Thomas H. O'Neill, Mayor, until May 23, for paving and constructing subways in a portion of Washington St. The work consists of: Subway, 8,000 duct ft. 12-way tile; 2,600 duct ft. 12-way iron pipe; 2,200 lin. ft. straight iron pipe; 5 double manholes. Paving: 5,350 sq. yds. vitrified brick; 3,384 lin. ft. Medina sandstone curbing; 135 lin. ft. curved curbing; 570 lin. ft. limestone headers; 10 stormwater inlets. J. S. Hanlon is City Clk.

✚BUFFALO, N. Y.—The CONSTANTINE CONSTRUCTION CO. has been awarded a contract for paving Milton St., 28 ft. wide, with round edge shale brick on concrete base, between Seneca St. and the Pennsylvania R. R., and the GERMAN ROCK ASPHALT & CONCRETE CO., LTD., the contract for paving Sanford St., 26 ft. wide, with standard asphalt, between Dewey and Leroy Aves.

CHATHAM, N. Y.—Bids will be received until May 20 by E. Cady White, Town Supt., for constructing a section of highway known as Rowe Hill. A. P. Tripp is Town Clk.

✚DEPEW, N. Y.—The contract for the work of paving Broadway, 2.3 miles in length, with brick, has been awarded to EDWARD T. BECK & CO., Warren, Pa., at $53,750.

*✚HUDSON, N. Y.—We are officially advised that bids for constructing a vitrified brick pavement, laying new and relaying old curb, and building new receiving basins on Warren St., from Third to Seventh Sts., were received on May 2, as follows: DOLLARD & HERRIN, Albany, N. Y., $31,491 for Clearfield, $32,319 for Jamestown (awarded contract), $32,905 for Mack, $32,319 for Olean; Jersey Paving Corporation, $35,384 for Metropolitan; Robert I. Gleason, $34,986 for Clearfield, $36,365 for Jamestown, $34,710 for Pennsylvania Clay; Wiltse & Rigney, $34,827 for Clearfield, $36,205 for Jamestown, $34,930 for Kushequa, $36,343 for Mack, $34,965 for Penn. Clay; John B. Dower, $35,426 for Mack; Crane & Veeder, $41,574 for Metropolitan; Patrick W. Mulderry, $33,063 for Clearfield, $34,409 for Kushequa, $34,685 for Jamestown, $34,547 for Mack, $33,201 for Porter, $33,996 for Porter National; Pietro Luciano, $33,613 for Big Four, Clearfield, Penn. Clay and Townsend; Dennis Hester & Son, $37,137 for Bessemer and Kushequa, $36,028 for Clearfield, $37,406 for Jamestown, $37,682 for Mack, $36,199 for Porter, $36,704 for Porter National; Foley & Bannon, $32,000 for Clearfield, $33,379 for Jamestown, $33,102 for Kushequa, $33,556 for Mack, $33,965 for Porter, $32,551 for Porter National. Noted on April 13.

✚LANCASTER, N. Y.—A contract for paving several of the principal city streets with brick has been awarded to the NIAGARA CONTRACTING CO., Corning, N. Y., at $68,000.

✚LOCKPORT, N. Y.—Bids for constructing the new Carmon-Town Line road in the town of Hartland and Royalton have been received as follows: C. B. Whitmore Co., Lockport, $17,700; JOHN BAMBRICK, Hartland, $13,539 (awarded contract); John C. Taylor, Hartland, $13,970; Rhodney & Tyler, Albion, N. Y., $14,611.

✚ONEIDA, N. Y.—The contract for paving William St. has been awarded to MEYER & BALLARD, Oneida, at $16,260 for crowning brick. The other bids were: W. D. Fitch & Co., $16,579; Conroy & Nixdorf, $16,603.

YONKERS, N. Y.—Bids will be received by the Board of Contract and Supply, James V. Mahony, Secy., until May 15, for regulating and grading Grant St., from Vernon to Kimball Ave.; Crescent Pl., from Mile Square Road, northerly; Portland Pl., from Shonnard Pl. to Amackassin Terrace; Charles Pl., from Bronx River Road to Crescent Pl., and until May 22 for regulating, grading and otherwise improving Coutant Ave., from Sterling to Kimball Ave.; Alexander Ave., from Coutant, southerly 262.8 ft.; Glover Ave., from Coutant Ave., southerly, 234.7 ft.

✚The contract for repairing the asphalt streets for one year has been awarded to HEARNS & HART.

✚NEW YORK, N. Y.—We are officially advised that contract for paving with asphalt the decks of certain piers of the East and Harlem Rivers were awarded on May 4 as follows: Class 1, to the BARBER ASPHALT PAVING CO., 30 Church St., New York, at $1.19 per sq. yd.; Class 2, to the SICILIAN ASPHALT PAVING CO., 41 Park Row, New York, at $1.19 per sq. yd.; Class 3, 4, 5 and 6, to the UVALDE ASPHALT PAVING CO., 1 Broadway, New York, at $1.18, 90 cts., 90 cts., and 84 cts., respectively. Noted on April 27.

NEW YORK, N. Y.—Bids will be received by Cyrus C. Miller, Pres. Boro. The Bronx, until 10:30 a. m., May 16, for paving, regulating, grading, constructing roads, erecting fences, furnishing broken trap rock stone and screening, etc.

NEW YORK, N. Y.—Bids will be received by Alfred E. Steers, Pres. Boro. Brooklyn, until 11 a. m., May 17, for regulating and repaving various streets and for furnishing 100 tons of refined asphalt.

NEW YORK, N. Y.—Bids will be received by Cyrus C. Miller, Pres. Boro. The Bronx, until 10.30 p. m., May 22, for paving with asphalt block on a concrete foundation the roadway of Vyse Ave., from 177th St. to 182d St., and setting curb where necessary, together with all work incidental thereto, and for furnishing and delivering 2,500 yds. of paving sand to the Bureau of Highways.

Bids will be received by George Cromwell, Pres. Boro. Richmond, until noon, May 23, for furnishing all the labor and materials required for regulating and repaving the roadways of Cedar St., from Broad St. to Boyd St., and other streets, together with all work incidental thereto.

OGDENSBURG, N. Y.—Bids will be received until May 15 for constructing 8,000 sq. yds. of concrete sidewalk. George S. Tate is City Engr.

✚ATLANTIC CITY, N. J.—The contract for paving Ventnor Ave. has been awarded to the H. G. MULOCK CO., Atlantic City, at $85,675. The other bidders were: Absecon Construction Co., $110,879; Edward L. Bader, $99,279; Monroe Paving Co., $108,297.

✚ELIZABETH, N. J.—The contract for the construction of a county road has been awarded to the C. H. WINANS CO., Waverly (Newark post-office), N. J., at 84 cts. per sq. yd. for 3-in. amiesite road, total $10,650. The Weldon Contracting Co. bid $13,312 for this work.

HACKENSACK, N. J.—Bids for constructing a mile of bituminous macadam surface on concrete foundation on the Paterson Plank Road, running west from the Hackensack River Bridge, have been received by the County Board of Freeholders, as follows: Ernest Abrahams, Hackensack, $24,000; George M. Brewster, $25,000; George F. Brackett, Ridgewood, N. J., $23,400.

IRVINGTON, N. J.—Bids will be received by M. Stockman, Town Clk., until 8 p. m., May 15, for flagging, grading and paving various streets. Specifications may be seen at the office of I. J. Casey, Jr, & Co., Town Engrs., Glorieux Bldg., or at the office of the Town Clk, Town Hall, Irvington.

✚NEWARK, N. J.—We are officially advised that contracts for paving were awarded on May 4, as follows: Concord and Runyon Sts., to the NEWARK PAVING CO., at $7,788 and $7,634, respectively; South and Van Buren Sts., to PHILIP & PETER JANNARONE, Belleville, N. J., at $24,957, and $3,816, respectively. Noted on May 4.

NEWARK, N. J.—Bids will be received by the Board of Street and Water Commissioners of the City of Newark until 3:15 p. m., May 18, for paving various streets.

MORRISTOWN, N. J.—Bids will be received by the Board of Chosen Freeholders of Morris County until 11 a. m., May 15, for repairing and improving the following roads: Budd's Lake Road, Netcong Boro., Mt. Olive Township, 11,000 ft.; Flanders and Bartleyville Road, Mt. Olive Township, 11,500 ft.; Succasunna and Landing Road, in Ledgewood, Roxbury Township, 1,300 ft.; Kenvil and Mt. Arlington Road, Roxbury Township, 4,500 ft.; Kenvil and Mt. Arlington Road and Young's Bridge Road, Roxbury Township, 2,700 ft.; Mt. Freedom Road, Randolph Township, 15,000 ft.; Chester and Moorristown Road, Chester and Mendham Townships, 31,000 ft.; Mendham and Bernardsville Road, Mendham Boro., 12,500 ft.; Mendham and Morristown Road, Morris Township, 15,000 ft.; Morristown and Madison Road, Morris Township, Madison Boro., 11,000 ft.; James St., Morristown, 1,500 ft.; Morris Ave., Morristown, 3,700 ft.; Passaic Valley Road, Passaic Township, 22,000 ft.; Newark and Pompton Turnpike, Pequannock Township, 3,500 ft.; Paterson and Hamburg Turnpike, Pignannoch Township, 7,000 ft.; Main St., Butler Boro., 7,000 ft. John W. Fancher is Dir.

✚LANCASTER, PA.—The NIAGARA CONTRACTING CO., Corning, N. Y., has been awarded the contract for paving several of the principal streets with brick at $68,800.

SELINSGROVE, PA.—Bids will be received by Joseph W. Hunter, State Highway Comr., Capitol, Harrisburg, Pa., until 2 p. m., May 18, for paving a section of Market St., Selinsgrove. Enos D. Garret, 1011 Chestnut St., Philadelphia, is Engr.

INGRAM (Pittsburg post-office), PA.—Bids for grading, curbing and paving Berry St., from Prospect Ave. to Elm St., will be received until 7:45 p. m., May 15, by D. H. Hainer, Boro. Clk., 54 McKee St., Ingram. John Murry is Boro. Engr.

McKEESPORT, PA.—The city is considering the paving of Walnut St. at an estimated cost of $20,000. J. Monroe Smith is City Engr. and Supt. Paving.

PHILADELPHIA, PA.—Bids for resurfacing asphalt paved streets occupied by the tracks of the Philadelphia Rapid Transit Co. were received by the Bureau of Highways on May 1, as follows: Filbert Paving & Construction Co., Pennsylvania Bldg., Philadelyhia, 54 cts. per sq. yd. for asphalt repair and 15 cts. for granite block; Barber Asphalt Paving Co., Land Title Bldg., Philadelphia, 63 cts. and 20 cts., respectively. The work is estimated at $200,000. Noted on April 27.

FREDERICK, MD.—Bids will be received by the Mayor and Board of Aldermen until May 24, for constructing 16,000 sq. yds. of pavement and 8,500 lin. ft. of curb. J. Edward Schell is Mayor and E. C. Crum, City Engr.

ROCKVILLE, MD. — The Montgomery County Commissioners are preparing to improve road from Rockville to Norbeck, a distance of 4½ miles. Work will be under the supervision of M. Donaldson Knight, County Road Supt.

WASHINGTON, D. C.—Bids will be received by the District Commissioners until 2 p. m., May 25, for furnishing asphalt paving blocks, repressed vitrified paving blocks, repressed vitrified invert sewer bricks, red sewer bricks, terra cotta sewer pipe, Portland cement and miscellaneous castings for the year ending June 30, 1912. Cuno H. Rudolph, John A. Johnston, William V. Judson are Comrs.

WASHINGTON, D. C.—Bids were received on May 6 by the Commissioners of the District of Columbia for paving during the fiscal year ending June 30, 1912, as follows: Sheet asphalt: Cranford Paving Co., Washington, standard asphalt, A, $1.70; B, $1.67; vitrified brick gutters with 6-in. concrete base, $1.40. Barber Asphalt Paving Co., Land Title Building, Philadelphia, standard asphalt, A, $1.76; gutters, $1.37. Asphalt blocks: Washington Asphalt Block & Tile Co., Washington, D. C., 4-in. with gravel base, $1.65; north of Florida Ave., or west of Rock Creek, 15 cts. extra; 3-in. with 4-in. concrete base, $1.80; 2-in. with 4-in. concrete base, $1.65.

RICHMOND, VA.—The City Council has appropriated $59,000 for street improvement in Washington Ward. Charles E. Bolling is City Engr.

RICHMOND, VA.—Bids will be received by the Board of Supervisors, P. St. J. Wilson, Comr., until May 25 for the improvement of about 125 miles of county highway.

✚ROANOKE, VA.—The Street Committee has awarded a contract to J. T. MUDDIMAN & CO., to construct 5-ft. sidewalks on Loudoun, Harrison, Fairfax and Shenandoah Aves., and to C. MARKLEY & CO., to macadamize, gutter and curb Henry St., from Henry St. bridge to Harrison Ave.

BLUEFIELD, W. VA.—Bids will be received by the Board of Affairs until 7.30 p. m., May 12, for grading and macadamizing a portion of Princeton Ave. The street is 16 ft. wide, and is to be paved with water-bound macadam. S. F. Stowers is Mayor.

NEW ORLEANS, LA.—Bids will be received at the office of the Board of State Engineers of Louisiana, Room 104, New Orleans Court Bldg., until noon, May 15, for the construction of a main public highway extending from Colfax to Rochelle, Grant Parish, Louisiana, an approximate length of 32 miles. Gervais Lombard is Acting State Highway Engr.

BARNESVILLE, OHIO.—Bids will be received by F. Waldo Hillis, Village Clk., until noon, May 15, for paving with brick North Lincoln Ave., from the present paved portion to Greenmount Cemetery.

CHEVIOT (Cincinnati post-office), OHIO.—Bids will be received by Charles Craig, Village Clk., until noon, May 15, for the improvement of Davis Ave., from Harrison to Woodbine Ave., by grading, setting cement curbs and gutters, macadamizing and rolling the roadway and constructing the necessary basins and drains in accordance with the plans, specifications, estimates and profiles on file in the office of the Village Clerk.

CANTON, OHIO.—Bids will be received by the Board of Commissioners of Stark County until 10 a. m., May 24, for draining, grading and paving with brick one mile of road in Lexington Township. R. O. Oberlin is County Clk.

CLEVELAND, OHIO.—Bids will be received by John F. Goldenbogen, Clk. Board of Commissioners of Cuyahoga County, until 11 a. m., May 27, for grading, draining and improving Irish Road No. 2.

✚CINCINNATI, OHIO.—We are officially advised that the contract for improving Eight Mile Road was awarded on April 28 to PETER PRAECHTER, Gerard and Donohue Sts., Cincinnati, at $4,668 for the section at Kremers Pl., and $2,018 at the School House, a total of $6,685. Noted on April 6.

COLUMBUS, OHIO.—Bids will be received by H. S. Holton, Dir. Pub. Ser., until May 19, for paving Summit St., from Eleventh Ave. to Hudson St.

COSHOCTON, OHIO.—Bids will be received by the Board of County Commissioners until May 16 for the improvement of part of the Coshocton and Otsego Road, in Franklin Township, by grading and draining.

DAYTON, OHIO.—Bids will be received by the Board of Public Service, J. C. Ely, Dir., until May 25, for paving portions of eleven streets and two alleys.

GREENWICH, OHIO.—Bids will be received by F. H. Daniels, Village Clk., until May 16, for 3,435 cu. yds. of excavating and 11,709 sq. yds. of water-bound macadam paving.

✚MARION, OHIO.—The contract for constructing Wildcat Pike, 6½ miles long, in Big Island and Montgomery Townships, has been awarded to J. M. STONE, Marion, at $25,900. The other bids were: E. C. Brady, $27,200; Uncapher & Shaw, $27,186; P. Drake & Sons, $29,910; Carrol & Hoyle, $26,975.

MINERVA, OHIO.—Bids will be received by Austin Freed, Village Clk., until noon, May 17, for grading, draining, curbing and paving parts of Lincoln Ave., and Market, Valley, West and Walnut Sts.

✚CHARDON, OHIO.—We are officially advised that a contract for grading and paving was awarded, on May 6, to the CEMENT PRODUCT CO., Erie, Pa., at $20,385. The other biders were: Linninger & Bennett, $28,837; C. J. Chinnock, $21,877; Gould & Maybach, $21,052; Advance Construction Co., $20,816. Noted on April 27.

✚BLUFFTON, IND.—We are officially advised that the contracts for constructing two stone roads in Jefferson Township were awarded on May 4 to J. N. NEFF, at $9,767, and to CHARLES NASH, at $5,669. Noted on April 27.

GREEN CASTLE, IND.—Bids will be received by the Commissioners of Putnam County until 2 p. m., May 27, for the construction of 8,275 lin. ft. of macadam road in Russel Township, known as the Garrington Road. D. V. Moffitt is County Audr.

✚SALEM, IND.—We have [illegible] information that the contract for [illegible]structing a road in Gibson County was [illegible]d on May 1 to LESLIE DARRAH, at [illegible]. Noted on April 27.

✚TERRE HAUTE, IND.—[illegible] ers of Vigo County have aw[illegible] [illegible]mmission for the construction of grav[illegible] contracts lows: The Brown Road, [illegible], as fol- DAILEY, at $6,610; to ELI[illegible] [illegible]MES F. Strole Road, at $2,089, the W[illegible] [illegible]EED, the the Long Road, at $5,317. [illegible] Road and

WABASH, IND.—Bids will [illegible] [illegible]ceived by the Commissioners of Waba[illegible] [illegible]nty until 1 p. m., June 6, for the co[illegible] [illegible]ion of a gravel road in Chester Town[illegible] known as the Frank Kester Road. J. [illegible]ftzge[illegible] is County Audr.

✚BESSEMER, MICH.—The [illegible] [illegible]act for grading 11½ miles of road [illegible] as the extension of the Gogetbic Coun[illegible] [illegible]nk Line, has been awarded by the Go[illegible] County Road Commission, Bessemer, to [illegible]N BRO- GAN, Chicago, Ill., at $19,495.

✚DETROIT, MICH.—The Co[illegible] Council awarded contracts for paving [illegible]ay 2, as follows: To JOHN S. AFFELI[illegible] [illegible]1 Camp- bell Ave., Detroit, Canton Av[illegible] [illegible]om Ker- cheval to Mack Ave., at $22[illegible] Iroquois Ave., from Kercheval Ave. to [illegible]rloo St., at $5,492; Waterloo St., from [illegible] Ave. to Connor's Lane, at $3,007; two [illegible]tions of Brush St., at $3,311; to OT[illegible] [illegible]EMENT CONSTRUCTION CO., Hammo[illegible] [illegible]dg., De- troit, Alley 198, at $2,997. A[illegible] paving to be with cedar block.

DETROIT, MICH.—Bids will [illegible] be received for paving various stre[illegible] an approximate cost of $105,160. J. [illegible]laarer is Comr. of Pub. Wks.

KALAMAZOO, MICH.—Bids w[illegible] be received by C. L. Miller, City Clk. [illegible] until May 15, for repaving Burdick St. with [illegible]k on a 6-in. concrete foundation, abou[illegible] [illegible]00 sq. yds.

CHICAGO, ILL.—Bids will be r[illegible]ceived by L. E. McGann, Comr. Pub. Wks., [illegible]ty Hall, until 11 a. m., May 15, for furni[illegible]ng and delivering approximately 2,500 cu. yds. of cedar blocks to the various ward yards.

✚BATAVIA, ILL.—We are offi[illegible]ally advised that bids for paving Main St. were received on May 1 as follows: GU[illegible]-GRAHAM Co., Freeport, Ill., $7,695 (awarded contract); Thomas Stanton, Batavia, $8,194; Arwin E. Price, Elgin, Ill., $8,250; Henry Hanson, Batavia, $8,400; C. Collins, Batavia, $8,400; John A. McGarry & Co., Chicago, Ill., $8,539; Northwestern Construction Co., Davenport, Iowa, $9,400.

✚PEKIN, ILL.—The contract for paving Park Ave. has been awarded to JANSEN & ZOELLER, Pekin, at $49,075. The item bids were: Streator brick, $1.725; Galesburg brick, $1.735; curb and gutter, 50 cts.; marginal curb, 25 cts.; cement curb, 25 cts. Other bids were as follows: A. D. Thompson, Peoria, Ill., $49,405; Illinois Cement Construction Co., Springfield, Ill., $49,435; Granite City Line & Cement Co., Granite City, Ill., $49,915.

MILWAUKEE, WIS.—Bids will be received by the Department of Public Works, Harry E. Briggs Comr., until May 15, for furnishing approximately 2,500 net tons of bituminous road binder f. o. b. cars Milwaukee.

JANESVILLE, WIS.—Bids will be received by the Street Assessment Committee until 2 p. m., May 23, for the improvement of a portion of Jackson St. John C. Nichols is Chn.

BEMIDJI, MINN.—Bids will be received by the Board of Commissioners of Beltrami County, J. L. George, County Audr., until 2 p. m., May 16, for the construction of various roads.

MINNEAPOLIS, MINN.—Bids will be received by A. P. Erickson, Audr. of Hennepin County, until 11 a. m., May 1[illegible], for turnpiking and gravelling Road No. 138.

PELAN, MINN.—Bids will be received by Oscar Roos, Township Clk., until 2 p. m., May 20, for grading 1¾ miles of road.

LINCOLN, NEB.—Bids will be received by H. E. Wells, Clk. of Lancaster County, until 2 p. m., May 14, for grading North 14th St., from Judson St. to the county road.

GANNVALLEY, S. DAK.—Bids will be received by the Board of Commissioners of Buffalo County until 1 p. m., May 13, for graveling a portion of road. W. H. Abernathy is County Audr.

✚ST. LOUIS, MO.—Contracts for paving have been awarded by the Board of Local Improvements, as follows: To the PARKER-WASHINGTON CO., Arkansas Ave., between Miami and Potomac Sts., asphalt, $5,174; Virginia Ave., between Osage and Keokuk Sts., asphalt, $5,188; Mary Ave., between Carter and Florissant Aves., asphalt, $5,391; to the RUECKING CONSTRUCTION CO., Michigan Ave., between Dates and Eichelberger Sts., brick, $7,866; to the WM. R. BUSH CONSTRUCTION CO., Virginia Ave., between Potomac and Cherokee Sts., brick, $5,663; to the SKRAINKA CONSTRUCTION CO., Clark Ave., between Prospect and Spring Aves., brick, $5,230; to the RUECKING CONSTRUCTION CO., Compton Ave., between Keokuk and Chippewa Sts., brick, $5,328; to the GRANITE BITUMINOUS PAVING CO., Cottage Ave., between Grand and Spring Aves., Bitulithic, $4,479; to GUSTAVUS A. HEMAN, Twelfth St., between Hebert and Branch Sts., wood block, $5,102.

✚GALVESTON, TEX.—The County Commissioners' Court of Galvestion has awarded the contract for sloping, surfacing and bulkheading the county highway from the city limits at the foot of Broadway to the causeway, to J. C. KELSO, at $37,406.

PARIS, TEX.—At an election in this precinct, embracing 144 square miles, the taxpayers voted $300,000 of bonds for the construction of good roads. The improvement work will soon be started.

✚MEDFORD, ORE.—A contract for paving 250,000 sq. yds. of streets has been awarded to the CLARKE & HENRY CONSTRUCTION CO., Sacramento, Cal., at about $[illegible],000. The item bid was $1.71 per sq. yd.

+LONG BEACH, CAL.—Contracts have been aw[illegible] as follows: For improving Park Cir[illegible] Main and 16th Sts., to WHITE & GASK[illegible] at $21,670; for improving Eliot St., to A[illegible] BURNS, at $22,009. All bi[illegible]e been rejected for the construction [illegible] 30-ft. cement sidewalk and bulkhead [illegible] parapet wall. The plans are being r[illegible] and new bids will be called for soon. [illegible] work will cost over $100,000.

+LOS [illegible]LES, CAL.—The County Board of Sup[illegible] of Los Angeles County have awarded [illegible]ntract to BRYANT & AUSTIN, 1920 Ba[illegible], Los Angeles, for improving 13 miles of [illegible]dway on Harlem Boulevard and Palm A[illegible] $183,026. Noted on May 4.

MA[illegible]FACTURING PLANTS.

(+ [illegible]notes a contract awarded.)

BIDD[illegible]ORD, ME.—A cotton mill is projected [illegible] Pepperell Cotton Mill Co., to cover 4[illegible] acres.

NASH[illegible] N. H.—Plans and specifications have b[illegible] prepared by Charles T. Main, Mill E[illegible] and Arch., of Boston, Mass., for addition [illegible] the plant of the Nashua Card, Gumme[illegible] & Coated Paper Co. at Nashua. These [illegible]ude an extension to the present mill 1[illegible] 63.11 ft., and a new storehouse adjoin[illegible] 138.9½ × 45 ft. The present stair tower w[illegible] be remodelled. The building will be six [illegible]ries high with basement. Proposals [illegible] been asked for.

NEW [illegible]EDFORD, MASS.—According to present [illegible]ans, ground will be broken at the foot of [illegible]earl St. before June for the construction by Hill & Cutler, of Boston, of a waste mill, the first to be built in this city. The building is to be of brick, three stories in height. To facilitate transportation and unloading of cotton waste and the finished product, a spur track is to be laid to the doors of the new mill from the main track. Jeremiah Connors, formerly connected with the New England Cotton Yarn Co., is to be Superintendent of the new mill.

+LYNN, MASS. — The contract for constructing the foundations for the building of the General Electric Co. has been awarded to STROUT BROS. The building is to be of reinforced concrete, 360 × 80 ft., and 44 ft. high.

CLINTON, MASS.—Bids are being received by Charles T. Main, Arch., of Boston, for the new Hex netting shop of the Clinton Wire Cloth Co., at Clinton. The main part of the building will be 164.8 × 84 ft., with a 40 × 52.4-ft. connecting wing at one end. The structure will be three stories high.

BRIDGEPORT, CONN. — The Bridgeport Screw Co. is about to erect a plant in East Bridgeport, to employ 1,000 hands. William J. Farrell is Pres.

+BRIDGEPORT, CONN.—Official advices are to the effect that the Crane Valve Co., of Bridgeport, through its Consulting Engineers, the Hooper-Faulkenau Engineering Co., 165 Broadway, New York, has let a contract to the W. H. BOARDMAN CO., 30 Church St., New York, for the construction of a heavy machine shop, 50 × 353 ft.

SOUTH NORWALK, CONN.—Vanderhoef & Co., of South Norwalk, manufacturers of hatting straw braids, are about to erect a 3-story addition to their Butler St. plant of brick, 40 × 60 ft., on the ground, and will carry up one of the present buildings another story to correspond.

WATERBURY, CONN.—Walter Hawthorne, whose Chestnut St. woodworking plant was destroyed by fire some weeks ago, is about to erect on the same site a factory building of brick, four stories in height and 40 × 150 ft. on the ground.

STAMFORD, CONN.—Plans and specifications are being prepared by Charles T. Main, Mill Engr. and Arch., of Boston, Mass., for the 7-story brass foundry of the Yale & Towne Mfg. Co., Stamford. Noted on April 27.

BROOKLYN, N. Y.—A 2-story brick factory building is to be erected at Wythe Ave. and Haywood St., Brooklyn, for Probst & Schomaker. It will cost about $15,000, will have a frontage of 54 ft. and a depth of 100 ft., and will be from plans by Henry Holder, Jr., Arch., 242 Franklin Ave., Brooklyn.

+BUFFALO, N. Y.—The Woods Products Co. has let a contract to JOHN FEIST & SONS CO., 111 Ash St., for the erection of a 2-story brick factory building at its plant on Fourth St. and the Erie Canal, to replace the building recently destroyed by fire. Cost, $35,000.

JAMESTOWN, N. Y.—The 5-story factory of the Golden Furniture Co., partially destroyed by fire recently, will be rebuilt as soon as contracts can be let.

NEW YORK, N. Y.—Plans have been filed by Buchman & Fox, Archs., 11 East 50th St., for the erection of a 3-story factory, 42 × 20 ft., on the north side of 62d St., east of Second Ave., for B. Rovira. Cost, $25,000.

NORTH TONAWANDA, N. Y.—The foundry and machine shop buildings and storehouse of the King Construction Co., manufacturers of greenhouse appliances, on Geneva St. and the Erie R. R., recently destroyed by fire, are to be rebuilt at once.

*+BATAVIA, N. Y.—Official advices are to the effect that the ALEXANDER, SHUMWAY & UTZ CO., 16 State St., Rochester, N. Y., Engineers and Contractors for reinforced concrete construction, have been awarded the general contract for the following reinforced concrete buildings to be erected for the Johnston Harvester Co., at Batavia: a 1-story addition to the Malleable Foundry, 109 × 511 ft.; a 2-story pattern storage building, 55 × 200 ft.; a 2-story addition to the Grey Iron Foundry, 82 × 186 ft.; and a 4-story factory building, 70 × 491 ft. The latter building will be designed for [illegible] tons live load, and all the buildings will be equipped with all steel sash. The above addition will give a malleable foundry over [illegible] ft. long.

+BROOKLYN, N. Y.—Shampan & Shampan, Archs., 722 Broadway, Brooklyn, have awarded the general contract to FRANK [illegible]ERLENBACK, 36 Suydam St., for the construction of a 3-story laundry, 62 × 100 ft. The Cascade Steam Laundry Co., 839 Myrtle Ave., is the owner. Cost, $30,000.

BUFFALO, N. Y.—The Graphic Arts Co. is having plans prepared for an addition, 60 × 150 ft., one story, to be made to its lithographing plant at Halbert and Main Sts. and the New York Central R. R. Belt Line.

Colson & Hudson, Archs., Dun Bldg., have completed plans for a 1-story factory building, 91 × 144 ft., of structural steel, brick and concrete, and a 1-story power house, 50 × 90 ft., same construction, to be erected by the Huebner-Bleistein Patents Co., at Kensington Ave. and the Belt Line.

JAMESTOWN, N. Y.—The Crescent Tool Co. will add to its plant at Sixth Ave. and Harrison St. a 2-story factory building, 50 × 132 ft., and an office building of brick and steel construction, from plans of C. C. Penderson, Arch., East Sixth St.

The Ahlstrom Piano Co. is having plans prepared by Freeburg & Filer, Archs., for a 5-story and a 2-story addition to be made to its plant on East Second St.

JOHNSTOWN, N. Y.—Linn Kinne, Arch., of Utica, has completed plans and will soon receive bids for a 4-story and basement factory building, 60 × 125 ft., of reinforced concrete construction, for the Knox Gelatine Co.

JERSEY CITY, N. J.—William A. Boring, Arch., 32 Broadway, New York, has prepared plans for a 2-story brick factory building to occupy a plot at Johnston and Holiday Sts., Jersey City, to be erected for the Wright Plane Co., of New York. Charles W. Wright is Pres.

NEWARK, N. J.—According to reports, Joseph W. Rosenbaum has purchased property on the south side of Astor St., between Broad and Austin Sts., which is 44 × 218 ft., for the purpose of erecting a jewelry factory. Estimated cost, $80,000.

+We are officially advised that the contract to erect a 5-story carriage factory at Fourth St. and Central Ave., for D. B. Dunham & Son, has been awarded to HERMAN C. SCHNEIDER, 514 South 14th St., Newark. William E. Lehman, 738 Broad St., is Arch. Cost, $43,500.

PATERSON, N. J.—A 4-story modern structure will replace the Hamil & Booth mill at Railroad Ave. and Ward St. The new building will be of brick and concrete. It will be leased by Emil Gerli, a silk importer. He bought the Hamil & Booth property several years ago, when that firm liquidated. Work of tearing down parts of the old structure will be commenced at once. The new mill will have a frontage of 55 ft. on Railroad Ave. and 115 ft. on Ward St., it is stated.

The Johnson-Vlaanderen Machine Co. has purchased a plot of ground between Van Houten and Ellison Sts., facing the Edison Works, on which it will erect a 5-story brick mill, to the main floor of which, when completed, it will remove its plant. It is expected that work will commence on the new structure within the month.

BRUIN, PA.—The High Grade Oil Co. plans to establish a plant here on a 12-acre site which has been offered by the citizens. It will have a capacity of 20,000 bbls. a month and will cost $50,000, according to press reports.

LITITIZ, PA.—The plant of the Ideal Cocoa & Chocolate Co., at Lititiz, will be greatly enlarged. Cost, $580,000.

PHILADELPHIA, PA.—Boger & Crawford, manufacturers of yarns, 4129 Frankford St., are securing estimates on plans for a factory, it is stated.

+A. RAYMOND RAFF, 1635 Thompson St., has a contract for a 6-story manufacturing building, 48 × 80 ft., at the southwest corner of Twelfth and St. James Sts., for F. X. Zirnkilton. The cost will be about $75,000.

Henry Holmes & Sons, Inc., (the Sherman Mills), will erect three new buildings on the site of a part of their present mill at Allegheny Ave. and A St., for the manufacture of machine printed tapestry carpets and rugs. They expect to build a printing plant, a dye-house and a storage wareroom.

+GEORGE KESSLER will begin work immediately on a 1-story erecting shop, 70 × 253 ft., on Aramingo St., east of Cumberland, for Williamson Bros. & Co. The cost will be $39,000.

Otto C. Wolf, Arch., Denckla Bldg., is preparing plans for a brew house, 50 × 150 ft., on Edward St., east of Second St., for the C. Schmidt & Sons Brewing Co.

+The JOSEPH BIRD CO., 213 North Eleventh St., has a contract to erect a factory addition at 718 Collowhill St. for A. J. Luburg.

+YORK, PA.—GEORGE F. MOTTER & SONS, of this city, were recently awarded the contract for the power equipment for the Ernest and Herman Levy ribbon manufacturing plant, which is being erected on East Boundary Ave. The company, among other things, will furnish a 125-HP. Paules engine, two 80-HP. boilers, the steam heating apparatus, pulleys and shafting. The work of installation will begin immediately.

BALTIMORE, MD.—Plans for the ice plant for the Knickerbocker Ice Co., at York and William Sts., were completed recently by J. E. Lafferty, Arch., 11 East Pleasant St., and contractors will soon be asked to estimate for the job. The present plant is to be razed and a new building, to be two stories high, of brick and stone, with slag roof, will be erected. It will cost about $25,000. Noted on March 30.

HAGERSTOWN, MD.—The New York Central Iron Works Co., C. E. Williams, Secy., Geneva, N. Y., has purchased 15 acres as a site for a plant. A building, 240 ft. long, with two wings, each 80 ft. long, of concrete, glass and steel, will be erected.

ROANOKE, VA.—The Piedmont Glass Co., incorporated with $100,000 capital stock with the following officers, A. W. Conway, Pres.; Henry Scholz, Vice-Pres.; A. B. Hunt, Secy. and Treas., plans to erect a factory.

ELLENBORO, W. VA.—The American Undercurrent Co. has closed a deal whereby they purchased local property for $30,000, on which will be erected a plant employing upwards of 1,000 men.

GRAFTON, W. VA.—The Solar Chemical Co., of Washington, D. C., plans to establish a factory here, it is reported.

ROCKINGHAM, N. C.—The Roberdel Mfg. Co., Rockingham, will erect a 1-story, 62 × 114-ft. addition, which on completion will be equipped with the machinery in the present beaming and slashing room, while the latter will then be equipped with 98 4 × 1 box looms. These looms and additional carding and spinning machinery have been purchased.

ROSMAN, N. C.—The Gloucester Lumber Co., with principal office at Rosman, will erect band sawmill to develop 20,000 acres timber recently purchased by company. Its officers are: Joseph S. Silverstein, of Asheville, N. C., Pres.; A. D. Updergraff, Vice-Pres., Williamsport, Pa.; N. S. Brittain, Secy.-Treas., of Stroudsburg, Pa. The company will let contracts for building a standard-gage railroad from Rosman to the timber tract, erection of band mill, etc. Later a tannic acid plant and pulp mill will be erected, it is announced.

JEFFERSON, S. C.—It is understood that J. C. Miller, of Jefferson, is planning for the establishment of a knitting plant as he has been investigating as to the cost of mechanical equipment for such an enterprise.

+MACON, GA.—According to press reports, the Bibb Sewer Pipe Co., a new $200,000 corporation which has already applied for a charter, will erect a plant, costing $100,000, adjoining the plant of the Bibb Brick Co. at the foot of Pine St. The contract for the erection of the uildings has already been awarded to SHAW BROS. CO., and it is understood that work will be started immediately. The plant will cover several acres of ground. One building, a 4-story structure, will cover an entire acre, and in addition there will be kilns for the drying of pipe, and other buildings which will be necessary to the operation of such a plant. W. J. & O. J. Massee are the owners.

+GAINESVILLE, FLA.—The Atlantic Coast Line R. R. Co. has awarded the contract to the ALLIS-CHALMERS CO., of Milwaukee, Wis., to furnish and erect a 2-cylinder timber-treating plant with a yearly capacity of 1,250,000 ties. William A. Fisher, of Wilmington, N. C., is Gen. Agt. of the railroad.

ERATH LA.—The Erath Sugar Co. has increased its capital stock from $80,000 to $150,000, and will replace the old mill with a larger plant and construct about six miles of railroad into Prairie Greg. The proposed mill is to have a daily capacity of 1,000 tons.

LOUISVILLE, KY. — Bids have been received and the contract is about to be let for the construction of a 4-story newspaper building, 100 × 110 ft., for the Louisville "Courier-Journal," Fourth and Green Sts. John Bacon Hutchings, Columbia Bldg., is the Arch.

Thomas & Bohne, Archs., Keller Bldg., have plans in course of preparation for a 3-story and basement newspaper building for the Louisville "Herald," 413 West Market st. The cost is estimated at $30,000.

CINCINNATI, OHIO.—Bids are being received for the construction of a factory, 92 × 72 ft., four stories high, by Martin Fisher, Arch., 2156 Central Ave., to be erected for the Corcoran Lamp Co., of which Thomas J. Corcoran, 721 Reading Road, is Pres. Estimated cost, $25,000.

MASSILLON, OHIO.—The Stark-Tuscarawas Brewing Co. will spend $40,000 during the coming year in rebuilding the wash and malt storage rooms and constructing additional cellars at the Massillon brewery, it is stated.

+TOLEDO, OHIO. — Langdon & Hohly, Nichols Bldg., have awarded the general contract for the 2-story and basement factory addition, 40 × 100 ft., for the Advance Machinery Co., 525 Hamilton St., to S. S. WALLS, Detroit Ave., Toledo.

+IRONVILLE (Toledo post-office), OHIO. —William B. Hunt, Spitzer Bldg., Toledo, has awarded the general contract for the 1-story factory plant, 79 × 706 ft., for the Monarch Mfg. Co., of Ironville, to W. A. GREUNKE, 975 Woodland Ave., Toledo. Noted on April 20.

WARREN, OHIO. — Wade & Scheibel, Archs., of Youngstown, are preparing plans for the manufacturing plant to be erected at Warren by the Universal Auto Truck Co. The works will consist of an extensive main shop and smaller buildings fitted for manufacturing purposes, an office, laboratory, power plant, mechanical equipment and houses for the shop employees. The preliminary drawings of a portion of the buildings are out and will be ready for figures in about four weeks.

+LAPORTE, IND. — The Great Western Mfg. Co. recently let a contract to the LARSON-DANIELSON CONSTRUCTION CO. for the erection of a 1-story brick building, to cost in the neighborhood of $10,000, and to be situated at the corner of Washington and Chicago Sts., 50 ft. on Washington and 200 ft. on Chicago. The building will be of mill construction and fireproof.

TERRE HAUTE, IND.—The Trebert Engine Co., of Butler, Ind., is asking for bids for the construction of a factory in this city. The building will have 17,000 sq. ft. of floor space, and will manufacture trucks and motors.

The Frank Prox Co. has ordered plans on which bids will be asked for the erection of three buildings on West First St. The buildings will be constructed of steel sash, and will be 80 × 400 ft. each.

DETROIT, MICH.—R. E. Raseman, Penobscot Bldg., Detroit, is preparing plans for a 2-story factory and warehouse, 105 × 40 ft., for the Goebel Brewing Co., 351 Rivard St. The architect will soon be ready to receive estimates.

+Albert Kahn and E. Wilby, Trussed Concrete Bldg., have awarded the general contract for the oil house for the Lozier Motor Co., Ford Bldg., to A. BENTLY & SON, Mack Ave. and Terminal R. R.

Pollmar & Ropes, Cleland Bldg., are preparing plans for a 2-story and basement factory, 99 × 27 ft., for A. Hesch, 56 Broadway. The architects will soon receive estimates.

+Albert Kahn & E. Wilby, Trussed Concrete Bldg., have awarded the general contract for the 2-story factory, 120 × 136 ft., for the American Electric Heater Co., B. H. Scranton, Pres., Woodland and Burrows Aves., to the HEITSCH CONSTRUCTION CO., Penobscot Bldg. Cost, $40,000.

+The same architects have awarded the general contract for the 2-story factory addition, 20 × 150 ft., for the Chalmers Motor Car Co., R. D. Chapin, Gen. Mgr., Jefferson Ave. and Belt Line R. R., to STOKES & WHITTINGHAM, 78 Linden St.

+Douglas & Lomason, 302 Grand River Ave., have awarded the contract for their 2-story factory, 90 × 159 ft., to I. E. BOOMER, 330 Forrest Ave., East, at $20,000. The plant is to be located on Brooklyn Ave.

CHICAGO, ILL.—The Wheeling Corrugating Co., of West Virginia, has leased the property at the southwest corner of Campbell Ave. and Harvard Sts., 134 × 627 ft. east front, for a term of 99 years. The lease, which became operative April 1, provides for the construction of a warehouse, to cost not less than $30,000; but the company plans to erect a 4-story mill-construction building to cost from $150,000 to $200,000. It will cover the entire lot, with the exception of the space used for switch tracks.

ELGIN, ILL. — The International Voting Machine Co. plans to establish a plant here, to cost $200,000 when completed. The first building will be 145 × 55 ft., with a frontage on South State St. The offices of the company are in the Spurling Bldg.

+CHICAGO, ILL.—The general contract to erect a 2-story foundry for the American Brake Shoe & Foundry Co. has been awarded to the LACKAWANNA BRIDGE CO., 72 West Adams St., by the Arnold Co., Engrs., 105 South La Salle St. Cost, $85,000.

Plans have been completed by H. E. Stevens, Arch., 53 West Jackson Boulevard, and bids are being received for the erection of two factory additions for the Ajax Forge Co., 2499 Blue Island Ave.

HARVEY, ILL.—Plans are being prepared for the construction of a manufacturing plant here for the Joan D'Arc Mfg. & Supply Co. bqy Lowe & Bollenbacher, Archs., 140 South La Salle St., Chicago. Estimated cost, cost, $100,000.

MILWAUKEE, WIS. — Herman J. Esser, Arch., is ready for bids for the construction of a $10,000 foundry building for Gustav A. Seefeld, to be occupied by the American Foundry Co., and situated at Milwaukee and Menomonee Sts. It will be 50 × 100 ft., one story high, and of brick and steel construction.

A permit to rebuild the structure at 118-120 Sycamore St., which was destroyed by fire several months ago, was issued to Lucinda W. and John W. Mariner, recently. The cost will be about $45,000. The building will be used for light manufacturing, and will be eight stories high, with a 47.5 ft. front and 120 ft. deep. The two stairways and elevator shafts will be fireproofed by being enclosed with 4-in. tile.

+KANSAS CITY, MO.—The Grocers' Ice & Cold-Storage Co. has been organized with the following officers: John F. Werdenmann, Pres.; Aaron Little, Vice-Pres.; W. F. Lyons, Secy. and Mgr.; David McDonnell, Treas. JOHN T. WELLS has been awarded the contract to erect a 60 × 142-ft. building, to cost $10,000. The cost of machinery will be $28,000. The plant will have a daily capacity of 60 tons of ice.

TERLINGUA, TEX.—The Big Bend Mining Co. will install a furnace and make other extensive improvements at its quicksilver mines in this district. It will establish a brick-making plant for the purpose of manufacturing about 250,000 brick for its own use.

BAY CITY, TEX.—James Rugeley will install a modern cotton gin here, at a cost of about $8,000.

BRYAN, TEX.—C. H. Holmes and associates will install a candy factory here. The most modern machinery for the purpose will be installed.

HOUSTON, TEX.—The Southern Hay Press Mfg. Co. will establish a factory here for the manufacture of hay presses. The company's present address is Silver Creek, Miss.

TEXARKANA, TEX. — The Land Milling Co., of Marshall, Mo., and Neodesha, Kan., will establish a branch of their business here. The proposed plant will cost about $30,000.

WHARTON, TEX. — The Caney Valley Truck Growers' Association and the Commercial Club, of Wharton, are promoting the establishment here of a crate, barrel and box factory. The proposed plant will be of large capacity.

TULSA, OKLA.—The Phoenix Refining Co., organized by the Graham-Harmon syndicate, which recently purchased the holdings of Charles Page in the Taneha oil field at a cost of $1,000,000, will erect a mammoth oil refinery at Sand Spring, seven miles northwest of Tulsa. This will make the fourth refinery at that place.

SALT LAKE CITY, UTAH.—With the filing of incorporation papers with the Secretary of State, recently, a $2,000,000 packing company was organized, including Gov. William Spry, Attorney A. L. Hoppaugh, C. S. Tingey, Secy. of State; H. P. Clark, Pres. of the Merchants' Bank, and Gov. T. L. Oddie, of Nevada. The incorporation is known as the International Packing Co., and has been organized for the purpose of operating packing plants, to deal in live stock, fruits, chemicals and the like. If the patents prove successful, Salt Lake City will be the place selected to build the first plant, which is estimated to cost $150,000.

SEATTLE, WASH.—C. E. Christopherson, 2426 Harvard Ave., North, who discovered extensive graphite beds near Teller, Alaska, has decided to erect a plant for the manufacture of graphite products in Seattle, according to reports.

BELLINGHAM, WASH. — The Balfour-Guthrie Co. intends to erect a cement plant. Plans are being prepared by F. L. Smidth &

Co., Engrs., 50 Church St., New York, and will be ready within 60 to 90 days. Estimated cost, $1,000,000.

BEND, ORE.—Contracts for the construction at Bend of a $250,000 woolen mill, to employ 350 men, and to be built immediately following the completion of the lines of the Oregon Trunk and Oregon-Washington R. R. & Navigation Co. into that city, have been signed by J. E. Sawhill, Mgr. of the Bend Commercial Club, and Dr. J. F. Bailey, representing the Union Woolen Mills Co., of Washougal and Union. The mill will turn out 2,500,000 lbs. of finished product annually, and will scour 1,500,000 lbs. additional.

PORTLAND, ORE.—O. M. Secrist, Vice-Pres. and Gen. Mgr. of the Pacific Fruit Express Co., has announced that the company would spend $150,000 in the erection of ice plants to be erected on the main line of the Oregon & Washington R. R. & Navigation Co., it is reported.

LOS ANGELES, CAL.—H. D. Wade and associates are forming a company here to manufacture tile and pressed brick. They propose to erect a factory near the city, at a cost of $125,000.

SAN FRANCISCO, CAL.—The following is noted from the San Francisco "Call": "The sale of the Risdon Iron Works, in this city, to the United States Steel Corporation has been virtually completed. At the same time, the report states, the corporation has acquired more than 14 blocks of land adjoining the Risdon works and a half mile of waterfront at the southern end of the city. These purchases are said to have cost the corporation a total of $2,250,000. Important extensions are planned, and in connection with the new works, iron ore deposits in the hills of California are to be developed."

BRANTFORD, ONT.—The Buffalo Brake Beam Co., of Buffalo, N. Y., has completed negotiations for the establishment of a Canadian branch for the manufacture of brake beams for railway cars and other lines. S. A. Crone is Pres., Buffalo.

WINDSOR, ONT.—C. Howard Crane, Ford Bldg., Detroit, Mich., has been commissioned by the Frederick Stearns Co., Jefferson and Bellevue Aves., Detroit, to prepare plans for rebuilding its factory in Windsor that was recently destroyed by fire. The architect will receive bids in his office in the Bogue Bldg., Windsor.

WINONA, ONT.—L. A. Roy, of Chicago, Ill., is making arrangements for erecting a $50,000 cooling plant at Winona. This is a patent system by which fruits and perishable goods can be cooled quickly.

MISCELLANEOUS CONTRACTS.

*(*Denotes that this work is advertised in Engineering News.)*

U. S. RECLAMATION SERVICE.—All news concerning canal and irrigation projects, etc., will be found under Water Supply—Irrigation.

✚DREDGING.—Boston, Mass.—The following bids were received on May 5 by the Massachusetts Harbor and Land Commissioners, Frank W. Hodgdon, Ch. Engr., for dredging in the entrance channel and anchorage basin of Cohasset Harbor: BAY STATE DREDGING CO., Boston, 21.9 cts. per cu. yd. (awarded contract); J. P. O'Riordan, 24¾ cts.; C. M. Cole, 25.3 cts.; Eastern Dredging Co., 27.3 cts.

STONE JETTY—Boston, Mass.—Bids will be received by the Board of Harbor and Land Commissioners, Boston, until May 12 for building a section of stone jetty at Scorton Harbor, East Sandwich.

DREDGING.—Boston, Mass.—Bids will be received until May 26 by the Massachusetts Harbor and Land Commissioners, Boston, for dredging 6,000 cu. yds. in Winthrop Harbor.

REPAIRING JETTIES.—Boston, Mass.—Bids will be received until May 26 by the Massachusetts Harbor and Land Commissioners, Boston, for repairing three stone jetties at East and West Bay, Ostorbille and Cuttyhunk. About 5,000 tons of stone will be required.

✚CEMENT.—Holyoke, Mass.—The contract for furnishing cement to the city for one year has been awarded to C. G. BURNHAM at $1.64 per bbl. for Saylor's cement.

✚LANDING GUNS.—Bridgeport, Conn.—The AMERICAN & BRITISH MFG. CO., Bridgeport, has been awarded by the Government a contract for 25 naval landing guns at about $200,000.

FIRE ENGINE HOUSE—Hartford, Conn.—The Building Committee of the Board of Fire Commissioners has accepted the plans of F. H. Whiton and John J. McMahon, of Hartford, for the new fire engine house at Temple and Market Sts. The plans contemplate a 2-story building, gray brick with slag roof. Plans were also submitted by Russell F. Barker, I. A. Allen, Jr., Raymond F. Bogart, Smith & Bassette and Raymond Ellis.

CANAL IMPROVEMENT—Albany, N. Y.—The State Assembly, it is reported, has passed the bill appropriating $10,000,000 for improving the Erie, Champlain and Oswego canals.

*SUBWAY, ETC.—Auburn, N. Y.—See item under Streets and Roads.

DREDGING—Buffalo, N. Y.—Bids will be received until May 13 by Francis G. Ward, Comr. Pub. Wks., for dredging Buffalo Inner Harbor.

ALARM SYSTEM—Albany, N. Y.—The Board of Contract and Supply will at once advertise for bids for the construction of an alarm system for the First, Second, Third and Fifth Police Precincts. Estimated cost, $27,000. Isidore Wachsman is Secy. Bd.

*ASSESSMENT MAP.—Ossining, N. Y.—All bids submitted on May 2 by the Board of Trustees for a village assessment map were returned unopened. New bids will be received until May 16. J. M. Terwilliger is Village Clk.

GRAND STAND.—New York, N. Y.—The new grand stand to take the place of the one recently destroyed by fire at the Polo Grounds will be a two-deck structure, built of reinforced concrete and steel columns. It will be semicircular in shape, measuring 328 ft. on the inner circle and 534 ft. on the outer side of the circle. Plans for the new structure have been filed with the Building Superintendent. The structure will have an asbestos roof, and will be fireproof. No wood will be used in its construction. Estimated cost, about $100,000.

STEEL SHELVING—New York, N. Y.—Bids will be received until May 12 by James Knox Taylor, Superv. Arch., Washington, D. C., for steel shelving in U. S. Custom House, N. Y.

✚REPAIRS TO STEAMER—New York, N. Y.—Bids have been received as follows for repairs to the steamer, Massasoit: WATERS-COLVES CO., West New Brighton (S. I.) N. Y., $14,938 (awarded contract); John W. Sullivan Co., $15,200; James Shewan & Son, $15,374; James Tregarthen & Son., $15,500; John F. Walsh, Jr. & Co., $15,970.

PLAYGROUND—New York, N. Y.—Bids were received by the Park Board, Dept. of Parks, on April 27, for constructing Bushwick playground, bounded by Putnam Ave. and Woodbine St. extension, between Knickerbocker Ave. and Irving Ave. The lowest bid was submitted by Kelly & Kelley, 45 East 42d St., New York, at $23,234.

GRANITE STONE—New York, N. Y.—Bids will be received by Calvin Tomkins, Comr. of Docks, until noon, May 19, for Contract No. 1273, for furnishing all the labor and materials required for furnishing and delivering granite stone for bulkhead or river wall.

ROAD OIL.—New York, N. Y.—Bids will be received by the Park Board, Dept. of Parks, until 3 p. m., May 18, for furnishing and delivering 1,000 bbls. of emulsifying road sprinkling oil at Prospect Park, and gravel pit, Ocean Parkway, near Ave. P, Boro. Brooklyn.

LUMBER AND PILES—New York, N. Y.—Bids will be received by Calvin Tomkins, Comr. of Docks, until noon, May 19, for Contract No. 1271, Classes 1, 2, 3 and 4, for furnishing all the labor and materials required for furnishing and delivering lumber and piles.

FIRE ALARM SYSTEM—Syracuse, N. Y.—The Board of Contract and Supply, John J. Halloran, Secy., will receive bids until May 26 for the new central office fire alarm system.

FIRE ESCAPES—White Plains, N. Y.—Frank S. Reynolds, Wellington Lounsbury and Arthur S. Maudlin, Committee on Poor and Asylums of the Board of Supervisors, will receive until May 29 bids for the construction of iron fire escapes in the hospital building of the Westchester County Almshouse at East View, N. Y. James A. Watson, Philipsburgh Bldg., Yonkers, N. Y., is Arch.

PLAYGROUND—Yonkers, N. Y.—Bids will be received by the Board of Contract and Supply, James V. Mahoney, Secy., until May 15, for the construction of a playground, including equipment.

DREDGING MACHINERY—Oswego, N. Y.—Bids were received on April 24 by Capt. W. L. Guthrie, Corps Engrs., U. S. A., Oswego, for dredging machinery for dipper dredge: Bids on machinery for 4½ to 5-yd. dipper with spud hoisting engines: American Locomotive Co., New York, $36,875; Bucyrus Co., South Milwaukee, Wis., $24,730; Marion Steam Shovel Co., Marion, Ohio, $18,820; Osgood Dredge Co., Albany, N. Y., $26,750; Vulcan Steam Shovel Co., Toledo, Ohio, $23,550. The Bucyrus Co. offers independent capstan engines for $210 additional and $1,350 additional for spare parts named in paragraph 28. Bids on machinery with both spud hoisting and crowding engines for 4½ to 5-yd. dipper: American Locomotive Co., New York, $37,475; Marion Steam Shovel Co., Marion, $19,820; Osgood Dredge Co., Albany, $27,950; Vulcan Steam Shovel Co., Toledo, $24,350. Bids on machinery without crowding and spud hoisting engines: American Locomotive Co., New York, $35,975; The Bucyrus Co., South Milwaukee, $23,800; Marion Steam Shovel Co., Marion, $17,820; Norbom Engineering Co., Philadelphia, $31,500; Osgood Dredge Co., Albany, $25,900; Vulcan Steam Shovel Co., Toledo, $21,750. American Locomotive Co. includes independent and capstan engines. Bids on fore and aft steel trusses: American Locomotive Co., New York, $3.95 per cwt.; The Bucyrus Co., South Milwaukee, $1,350; Marion Steam Shovel Co., Marion, $1,425; Norbom Engineering Co., Philadelphia, $850; Osgood Dredge Co., Albany, 5 cts. per lb.; Vulcan Steam Shovel Co., Toledo, $1,400. The Bucyrus Co. bids on metal parts only of truss combination, wood and iron. Posts and cords to be of wood to be furnished by the government. The above price offered by the Vulcan Steam Shovel Co. is for trusses for 85 ft. hull. The price for 105 ft. hull is $1,700. Bids on smaller machinery, without spud hoisting or crowding engines, about 3½-yd. dipper for soft material, and 2½-yd. for hard material: American Locomotive Co., $30,050; Osgood Dredge Co., $20,100; Vulcan Steam Shovel Co. American Locomotive Co. offers a crowding engine for this machinery for $500 extra.

✚SHED—Elizabeth, N. J.—The contract has been awarded to the M. BYRNES BLDG. CO., of Elizabeth, by the city for constructing a steel shed, at $12,612. Bids were opened on April 17. List of bidders noted on April 27.

✚COAL STORAGE PLANT—Philadelphia, Pa.—George B. Newton & Co. will erect a reinforced-concrete coal storage plant with unloading and handling equipment for taking coal from barges and cars. The conveying machinery will have a capacity of 100 tons per hour. The general contract has been awarded to the GUARANTEE CONSTRUCTION CO., 90 West St., New York.

CEMENT, ETC.—Washington, D. C.—Bids will be received until 2 p. m., May 25, by the District Commissioners for Portland cement, granite curbing, asphalt paving blocks, repressed vitrified paving blocks, sewer brick, etc., during the fiscal year.

FIRE ENGINE—Washington, D. C.—Bids will be received until 2 p. m., June 15, by the District Commissioners for furnishing and delivering one second size, double-action, steam fire engine.

ICE-MAKING ADDITION—Washington, D. C.—Bids will be received by the Department of the Interior, Washington, until 2 p. m., May 15, for an addition to the ice-making system in the Patent Office, substituting an ammonia system in place of the sulphurous dioxide system now in use. Carmi A. Thompson is Asst. Secy.

GUN FORGINGS—Washington, D. C.—Bids will be received by the Bureau of Ordnance, Navy Dept., Washington, D. C., for furnishing six sets 14-in. nickel steel and steel gun forgings. N. E. Mason is Ch. of Bureau.

LUMBER—Washington, D. C.—Bids will be received until May 16 by the Bureau of Supplies and Accounts, Navy Dept., Washington, for 5,000 ft. white ash, 5,000 lbs. vitae-lignum, 32,000 ft. of white oak, 175,000 ft. North Carolina pine, 52,000 ft. white pine, 20,000 ft. staging spruce and 12 spruce poles, Schedule 3,532; delivery at navy yard, Norfolk, Va.; 5,000 ft. basswood, miscellaneous lot of oak, 120,000 ft. white pine, 80,000 ft. North Carolina, Georgia and Virginia pine, 16,000 ft. yellow pine and 20,000 ft. of spruce, Schedule 3,528; delivery navy yard, Washington, D. C.

COPPER WIRE—Washington, D. C.—The following bids were received on May 2 by the Chief Signal Officer, U. S. A., Washington, for furnishing twelve miles of hard-drawn copper wire, No. 10 under Proposal 524: Western Electric Co., New York, $13.875 per 100 lbs.; Carroll Electric Co., Washington, $15.575; American Steel & Wire Co., New York, $13.925; S. M. Cohn & Co., 136 Liberty St., New York, $25.61; National Electrical Supply Co., Washington, 13⅞ cts. per lb.; National Brass & Copper Tube Co., New York, 13.925 cts. per lb.; American Electrical Works, Philipsdale, R. I., $13.50; John A. Roebling's Sons Co., Trenton, N. J., $13.925; W. A. Clark Wire Co., New York, 13⅞ cts. per lb.; Standard Underground Cable Co., Pittsburg, Pa., 13⅝ cts. per lb.

HOSE.—Washington, D. C.—Bids will be received until 2 p. m., June 20, by the District Commissioners for furnishing about 15,000 ft. of 2½-in. cotton-covered rubber-lined hose for use in the fire and other departments.

*DREDGE HULL, SCOWS.—Washington, D. C.—Bids will be received until noon, June 7, by Lt. Col. W. C. Langfitt, Corps Engrs., U. S. A., 20 17th St., N. W., Washington, for furnishing materials and constructing one dredge hull and three deck scows.

RENEWAL OF TRACK—Norfolk, Va.—Bids will soon be asked by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for the renewal of about 700 ft. of track for a 40-ton locomotive crane at the navy yard, Norfolk. The work consists in general of excavation around the present timber and pile construction, the cutting off of the piles below the permanent wet line, the driving of additional piles, and the capping of piles with a continuous concrete wall, walls to be connected by reinforced strut ties. The present steel rails will be used with the exception of two frogs which are to be furnished by the contractor. The specifications will allow six months for the work. The appropriation now available for the work is $20,000.

REPAIRS TO TORPEDO SLIPS—Norfolk, Va.—Bids were received as follows on May 6, by the Bureau of Yards and Docks, Navy Dept., Washington, for repairs to torpedo slips in the Norfolk navy yard. The work is in seven sections and prices were asked on the following items: Item (1) first section; (2) first two sections; (3) first three sections; (4) first four sections; (5) first five sections; (6) first six sections; (7) total work: Sanford & Brooks Co., 24 Commerce St., Baltimore, (1) $7,260 (2) $14,520, (3) $21,780, (4) $29,040, (5) $36,300, (6) $44,060, (7) $56,010; Alan Pope Engineering Co., Colorado Bldg., Washington, (1) $9,758, (2) $19,556, (3) $29,000, (4) $38,300, (5) $46,900, (6) $56,200, (7) $67,200; William L. Miller, 19 Milk St., Boston, (1) $8,000, (2) $15,500, (3) $23,000, (4) 30,500, (5) $37,500 (6) $45,000, (7) $57,668. The two following bidders bid on each section separately: Norfolk Foundation & Pile Co., Inc., Norfolk, first, $7,386; second, $7,339; third, $7,468; fourth, $7,630; fifth, $7,577; sixth, $7,465; seventh, $11,828. John Monk, Seaboard Bank Bldg., Norfolk, first, $5,652; second, $5,555; third, $5,676; fourth, $5,635; fifth, $5,493; sixth, $5,480; seventh, $9,479. Total, $42,971, with 2% discount if awarded entire contract.

✚RAILROAD CARS—Norfolk, Va.—The Seaboard Air Line Ry. Co. has awarded equipment contracts involving $2,000,000, as follows: 1,000 box cars, 200 gondolas and 36 caboose cars, PRESSED STEEL CAR CO., Pittsburg; ten Pacific type locomotives, AMERICAN LOCOMOTIVE CO., New York; ten heavy combination locomotives and five yard engines, BALDWIN LOCOMOTIVE WORKS.

*LOCK AND DAM—Wheeling, W. Va.—Bids will be received until 11 a. m., June 5, by Maj. F. W. Alstaetter, Corps Engrs., U. S. A., Wheeling, for constructing lock and dam No. 15, Ohio River, near New Martinsville, W. Va.

DREDGING—Fort Caswell (Southport post-office), N. C.—Bids will be received until May 15 by R. O. Edwards, Const. Q. M., U. S. A., for dredging a narrow channel with narrow basin to launch wharf, 40,000 cu. yds.

✚CANAL—Adeline, La.—[illegible] constructing a canal, abou[illegible] contract for [illegible]000 cu. yds. has been awarded by the [illegible] [illegible]mort Drainage Board to N. J. HUTH[illegible] [illegible]EDGING CO.

DRAINAGE—New Roads[illegible]—Bids will be received until May [illegible] [illegible] Joseph Le Jeune, Pres. Portage [illegible] [illegible]e District, New Roads, for cleaning [illegible] [illegible]iles of right of way and for excavating [illegible] [illegible]t 45,000 cu. yds. of canal in the P[illegible] [illegible] of Pointe Coupee.

STONE—New Orleans, L[illegible]—Bids will be received until 11 a. m., Ma[illegible] by Lt. Col. Lansing H. Beach, Corps E[illegible] U. S. A., for furnishing and deliverin[illegible] [illegible] at South Pass and Southwest Pass, M[illegible]ppi River.

OIL PIPE LINE.—Toomey [illegible] The Texas Co., Houston, Tex., it is r[illegible] [illegible] will lay an oil pipe line from Toome[illegible] Lake Charles and thence to a connecti[illegible] [illegible] the line from Jennings field to Atch[illegible] [illegible] La.

*DREDGE—Nashville, Tenn[illegible] [illegible]ds will be received until 11 a. m., Ju[illegible] by Maj. William W. Harts, Corps E[illegible] U. S. A., Nashville, for building dred[illegible] [illegible]ellico."

DREDGING—Cleveland, Oh[illegible] [illegible]ds will be received until 10 a. m., J[illegible] [illegible] by Col. John Millis, Corps Engrs., U[illegible] [illegible]A., Cleveland, for constructing break[illegible] and removing breakwater at Asht[illegible] [illegible] Harbor, Ohio.

DREDGING—Cleveland, Oh[illegible] [illegible]ids will be received until June 1 by Co[illegible] [illegible]hn Millis, Corps Engrs., U. S. A., Cl[illegible] [illegible]and, for dredging in Toledo Harbor.

COMFORT STATIONS.—Colu[illegible] [illegible]s, Ohio.—Bids will be received by H. S[illegible] [illegible]lton, Dir. of Public Ser., until 12 noon, M[illegible] 12, for the construction of comfort station[illegible] [illegible] Livingston Park.

DITCH.—Rensselaer, Ind.—T[illegible] Commissioners of Jasper County will [illegible] for bids for the construction of the Pa[illegible] [illegible] Ditch.

DITCH WORK—La Porte, Ind.—Bids will be received until May 13 by William I. Robinson, Supt. of Construction, care of Osborn, McVey & Osborn, La Porte, for constructing an open ditch about 11,358 ft. and requiring the excavation of about 20,210 cu. yds.

*SLUICE GATES.—Detroit, Mich.—The contract has been awarded to the MILWAUKEE BRIDGE CO., of Milwaukee, Wis., for constructing sluice gates for the St. Marys Fall Canal at Sault Ste. Marie, Mich., at $25,865. Noted on April 20.

*LOCK MASONRY—Detroit, Mich.—Bids will be received until 3 p. m., June 29, by Col. C. McD. Townsend, Corps Engrs., U. S. A., Detroit, for the construction of lock masonry at Sault Ste. Marie, Mich.

*DREDGING—Detroit, Mich.—Bids were received on April 24 by Col. C. McD. Townsend, Corps Engrs., U. S. A., Detroit, for dredging Saginaw River, Mich. The contract has been awarded to BREYMANN BROS., Toledo, Ohio. List of bidders noted on May 4.

*DREDGING.—Chicago, Ill.—Bids will be received by Lt.-Col. George A. Zinn, Corps Engrs., U. S. A., Chicago, until 10 a. m., May 29, for dredging in Michigan City Harbor, Ind.

✚LEVEE—East St. Louis, Ill.—The contract has been awarded by the Board of Trustees, East Side Levee and Sanitary District, for the construction of an earth levee, with crown 8-ft. wide and length of three miles, Section I., Front Levee, to the J. A. WARE CONSTRUCTION CO., St. Louis., at $27,705. List of bidders noted on May 4.

✚DITCH.—Fort Dodge, Iowa.—Contracts have been awarded as follows by the Joint Board of Supervisors of Webster and Calhoun Counties for Webster-Calhoun Joint Drainage Districts, 70-95: Labor, to J. H. LARISON, Lanesboro, Iowa, at $11,577; tile on line of ditch, to the LEHIGH CLAY PRODUCTS CO., Lehigh, Iowa, at $15,479. G. P. Smith is Engr., Fort Dodge.

✚DRAIN.—Jefferson, Iowa.—The contract for constructing Joint Drain No. 70-75 has been awarded to R. M. SHUMAN, of Jamaica, Iowa, at $11,000.

DRAIN.—Nevada, Iowa.—C. A. Batman County Audr., will receive bids until 1.30 p. m., May 13, for the construction of Drain No. 40, 6,784 ft. of 7 to 12-in. tile.

DITCH.—Ivanhoe, Minn.—Karl A. Hansen County Audr., will receive bids until 9 a. m., May 13, for the digging and constructing of Ditch 24.

EXCAVATING CHANNEL.—Lincoln, Neb.—Bids will be received until noon, May 22, by Sanitary District No. 1, for excavating a new channel for Oak Creek, two miles long and about 160,000 yds. of excavation. W. J. Blystone is Chn.

STEEL BARGES—Kansas City, Mo.—Bids were received as follows on May 1 by Maj. Edward H. Schulz, Corps Engrs., U. S. A., Kansas City, for steel barges: Kansas City Structural Steel Co., Kansas City, Mo., under U. S. plans and specifications, four barges, $26,800; six, $39,900; eight, $52,800. Dubuque Boat & Boiler Works, Dubuque, Iowa, $25,720, $38,400 and $51,080; alternate bids, $24,720, $37,400 and $50,080. Missouri Valley Bridge & Iron Co., Leavenworth, Kan., $22,074, $31,884 and $41,672. American Bridge Co., 30 Church St., New York, $30,000, $45,000, $60,000; alternate bids, $23,000, $40,400 and $47,200. Milwaukee Bridge Co., Milwaukee, Wis., $26,9[illegible], $40,109 and $53,214. Des Moines Bridge & Iron Works, Des Moines, Iowa, $27,980, $42,600 and $57,800. Stupp Bros. Bridge & Iron Co., St. Louis, Mo., $32,716, $48,894 and $65,000. Springfield Boiler & Mfg. Co., Springfield, Ill., $29,000, $43,110 and $57,200.

CANAL WORK—Algoa, Tex.—Galveston County Drainage District No. 1, R. H. Bushway, Chn., Algoa, will receive bids until 9.30 a. m., May 30, for the construction of laterals opening La Flores Bayou and Willow Bayou, excavating about 16[illegible]000 cu. yds. of earth. E. Evans is Engr., Galveston, Tex.

✚WHARF [illegible] SHED—Galveston, Tex.—The Galveston [illegible] Co. has awarded to JAMES STE[illegible]ART & CO., Lincoln Trust Bldg., St. [illegible], Mo., the contract for the erectio[illegible] of an additional wharf shed on the wh[illegible] front at Pier 39, of steel reinforced c[illegible]ete with fireproof roofing, vitrified b[illegible] flooring.

ELECTR[illegible] CARRIERS.—Texas City, Tex. —The Tex[illegible] Transportation Co. has arranged fo[illegible] installation of electric carriers in [illegible] warehouse. If these carriers prove sa[illegible]tory it is the intention to equip all [illegible] warehouses with them. The company [illegible] also equip its pier with electric cran[illegible] handle cotton and miscellaneous frei[illegible] It is also planned by the company to i[illegible] machine shops for the repair of equipm[illegible] The shops will be operated by electricity

DRY K[illegible]—Bremerton, Wash.—Bids were received [illegible]llows on May 6 by the Bureau of Yards [illegible]d Docks, Navy Dept., Washington, [illegible] for a dry kiln at the navy yard, Pu[illegible] Sound, Bremerton, Wash.: C. F. Graff, [illegible] Crary Bldg., Seattle, Wash., Item (1) [illegible]228, (2) $5,328, (4) $4,898; North C[illegible] Dry Kiln Co., 1911 15th Ave. West, Se[illegible]e, Item (3) $900; International Contract C[illegible], 501 Central Bldg., Seattle, Item (1) [illegible],860, (2) $4,703.

TRAMW[illegible]Y—Spokane, Wash.—On April 6 the follow[illegible] item under Spokane was published: "A contract for the construction of an 8,5[illegible] ft. aerial tramway has been let by the Stan[illegible]rd Silver-Lead Mining Co., to B. C. RIBL[illegible] & BRO. Estimated cost, about $25,000." This tramway contract awarded by Stand[illegible] Silver-Lead Mining Co. was for a Lesch[illegible] tramway, the award being made to the above company through the representative of the A. Leschen & Son's Rope Co., 918, 932 North First St., St. Louis, Mo., Mr. W. S. Riblet, Nelson, B. C.

DITCH WORK.—Everett, Wash.—Bids will be received by the Drainage Commissioners of Drainage District No. 1, care Robert McMurchie, Atty., 407 American National Bank Bldg., Everett, until noon, May 26, for digging and enlarging ditches in the district. Plans may be seen at the office of the Coast Engineering Co., Eclipse Bldg.

✚BARGES—Portland, Ore.—The Portland Sand Co. has awarded a contract to the PORTLAND SHIPBUILDING CO. for the construction of two barges.

PUMPING MACHINERY, BOILERS—Portland, Ore.—Bids will be received at the office of the City Auditor until 3 p. m., May 25 for furnishing the Fire Department with pumping machinery and boilers for the proposed fire boat to be built by the city, according to the specifications filed in the office of the Chief Engineer, City Hall. Separate bids are to be submitted on pumping machinery and on the boilers.

DREDGING—Tillamook, Ore.—The contract will probably be awarded soon by the Port Commissioners for dredging in connection with waterfront improvement. Noted on April 13.

✚ENGINE HOUSE—Los Angeles, Cal.—The Board of Public Works has awarded the contract to the J. D. KEENE CO. for the construction of the Washington St. engine house, at $12,592.

CEMENT—San Francisco, Cal.—Bids have been received by the State Engineer for 100,000 bbls. of cement for use in construction work. The lowest bid was that of the Henry Cowell Lime & Cement Co., Bay Point, Cal., at $1.50 per bbl. f. o. b. factory.

POLICE PATROL TELEGRAPH SYSTEM —Winnipeg, Man.—Bids will be received by the Board of Control, M. Peterson, Secy., until July 3, for the supply of apparatus and materials required for the installation of a police patrol telegraph system. Specifications, etc., from F. A. Combridge, City Elecn.

WHARF—Prince Albert, Sask.—Bids will be received until May 22, by R. C. Desrochers, Secy. Pub. Wks. Dept., Ottawa, Ont., for the construction of a wharf and protection work on the south side of the North Saskatchewan River. Plans, etc., on application to the department or to F. G. Goodspeed, Dist. Engr., Edmonton, Alta.

✚WIRE FENCE.—Saskatchewan and Alberta.—Contracts for 1,000 miles of wire fence in Saskatchewan and Alberta have been let to two Winnipeg firms by the Canadian Pacific Ry. The contracts call for maintenance fencing of the main line and branches in the two provinces. The HANWELL-HOXIE WIRE FENCE CO. was awarded the contract for 730 miles in Saskatchewan and the IDEAL FENCE CO. for 270 miles in Alberta.

U. S. POSSESSIONS.

*(*Denotes that this work is advertised in Engineering News.)*

LUMBER AND CREOSOTED PILES.—Panama.—Bids will be received until 10.30 a. m., May 31, by Capt. F. C. Boggs, Corps Engrs., U. S. A., Gen. Pur. Officer, Isthmian Canal Comn., Washington, D. C., for lumber and creosoted piles under Circular No. 631.

FABRICATED STEEL STRUCTURAL MATERIAL.—Hawaii.—Bids are asked until 11 a. m., June 3, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for furnishing 2,500 tons of fabricated steel structural material and certain castings for seven buildings at the Naval Station, Pearl Harbor, H. T.

*✚RACK RAILWAY MATERIAL.—Panama.—Contracts have been awarded as follows by Capt. F. C. Boggs, Corps Engrs., U. S. A., Gen. Pur. Officer, Isthmian Canal Comn., Washington, D. C., for rack railway material: To the U. S. STEEL PRODUCTS CO., 30 Church St., New York, Class 1, at $125,991, delivery by Jan. 1, 1912; ROSS-MEEHAN FOUNDRY CO., Chattanooga, Tenn., Class 3, at $15,848, 90 days; OLIVER IRON & STEEL CO., Pittsburg, Pa., Class 7, at about $11,398, Jan. 1, 1913. List of bidders noted on April 6.

LUMBER, STEEL BARS.—Panama.—Bids will be received by Capt. F. C. Boggs, Corps Engrs., U. S. A., Gen. Pur. Officer, Isthmian Canal Comn., Washington, D. C., until 2.30 p. m., or at the office of the Assistant Purchasing Agent, 1086 North Point St., San Francisco, Cal., until 11.30 a. m., May 12, for lumber and steel bars. Blanks and general information relating to this Circular No. 630-A may be obtained from office of the Commission or the offices of the Assistant Purchasing Agents, 24 State St., New York; 614 Whitney-Central Bldg., New Orleans, La., and 1086 North Point St., San Francisco, Cal.; also from the U. S. Engineer Offices in Chicago, Ill., and Galveston, Tex.

*DAMS, ETC.—Porto Rico.—Following the rejection of all bids received on Feb. 7, by the Porto Rico Irrigation Service, for the construction of the Cavite Dam, Guayabal Dam and Patillas Canal, laws have been enacted directing that the work shall be done administratively and not by contract. The work includes: (a) Carite Dam and appurtenant structures, about 150,000 cu. meters of earth and loose rock; estimated cost, about $190,000; (b) Guayabal Dam and appurtenant structures, about 73,500 cu. meters of concrete masonry and 82,000 cu. meters of excavation; estimated cost, about $550,000; (c) Patillas Canal and appurtenant structures, about 32,000 cu. meters of open-cut excavation, 2,000 lin. ft. of tunnels, 2,500 lin. ft. of flumes, 600 lin. ft. of siphons, and 100 bridges; estimated cost, $70,000. J. W. Beardsley, Guayama, is Ch. Engr., Porto Rico Irrigation Service.

EXAMINATIONS.

ASSISTANT ELECTRICAL ENGINEER.—New York, N. Y.—Applications will be received for the position of Assistant Electrical Engineer until May 24, at the office of Frank A. Spencer, Secy., Municipal Civil Service Comn., 299 Broadway. No application delivered at the office of the Comn. by mail or otherwise after 4 p. m., May 24, will be accepted. The examination will be held on June 14 at 10 a. m. The subjects and weights of the examination are as follows: Experience, 4; technical, 6. The duties of the position will comprise the care of electrical conduits, the laying of underground circuits, and the distribution of branches to fire alarm boxes. Salary, $1,800 a year. Applicants must have reached their 21st birthday.

OILER.—Washington, D. C.—The U. S. Civil Serive Commission announces an examination to secure eligibles from which to make certification to fill a vacancy in the position of Oiler, at $720 a year, in the U. S. Military Academy, West Point, N. Y., and vacancies requiring similar qualifications as they may occur, unless it shall be decided in the interest of the service to fill the vacancy by reinstatement, transfer, or promotion. No educational test will be given, and it will not be necessary for applicants to appear at any place for examination. The examination will consist of the subjects mentioned below, weighted as indicated: Physical ability, 40 points; training, experience and fitness, 60 points. Applicants must have reached their 20th birthday. Examination form 1800.

MODELER.—Washington, D. C.—The U. S. Civil Service Commission announces an examination to secure eligibles from which to make certification to fill vacancies as they may occur in the position of Modeler, both permanent and temporary, in U. S. National Museum, Washington, D. C., unless it shall be decided in the interest of the service to fill such vacancies by reinstatement, transfer, or promotion. The usual entrance salary to this position is $4.50 a day. Competitors will not be assembled for any of the tests. The examination will consist of the subjects mentioned below, weighted as indicated: Training and experience, 25 points; practical tests, 75 points. Applicants must have reached their 20th birthday. Examination form 1312.

CONTRACT PRICES.

*(*Denotes that this work is advertised in Engineering News.)*

HYDRAULIC AND ELECTRICAL EQUIPMENT.—Boise, Idaho.—Bids were received April 27 by the U. S. Reclamation Service at Los Angeles, Cal., for hydraulic and electrical equipment for the Boise Project from: (A) Allis-Chalmers Co., Milwaukee, Wis.; (B) S. Morgan Smith Co., York, Pa.; (C) Wellman, Seaver, Morgan Co., Cleveland, Ohio; (D) Westinghouse Electric & Manufacturing Co., Pittsburg, Pa.; (E) General Electric Co., Schenectady, N. Y.; (F) Fort Wayne Electric Works, Fort Wayne, Ind. The itemized bids were as follows:

HYDRAULIC EQUIPMENT, BOISE, IDAHO.

	A.	B.	C.
3 hydraulic turbines	$3,316	$4,166	$4,875
3 thrust bearings	913	466	870
3 governors	1,540	1,400	1,725
Totals	$17,310	$17,100	$22,410

ELECTRICAL EQUIPMENT, BOISE, IDAHO.

	A.	B.	C.	D.
3 Alternators (625 K.A.V.)	$5,566	$7,686	$7,491	....
3 Air blast transformers	2,408	1,466	2,186	....
Switchboard (lump sum)	3,330	3,354	3,540	$3,550
24 Disconnecting switches (22,000 volt)	16	8	11	13
6 Circuit breakers (remote control)	356	305	217	827
6 Circuit breakers (hand operated)	300	273	175	575
Supplies (lump sum)	465	650	476	....
2 Lightning arresters	368	308	250	236
4 Auxiliary transformers	310	425	419	....
2 Blowers	378	240	265	....
Air Compressor	258	460	243	....
Totals	$34,181	$38,832	$36,873	....

PIER WORK.—Grand Rapids, Mich.—Bids were received on April 27 by C. S. Riche, Corps Engrs., U. S. A., for the construction and repair of piers at Muskegon Harbor, from (A) Greiling Bros. Co., Green Bay, Wis.; (B) Robert Love & Son, Muskegon, Mich. (recommended for award); (C) L. G. Smith & Co., Muskegon, Mich.; (D) Burk, Smith & Nelson, Muskegon, Mich.; (E) J. E. Hathaway, Milwaukee, Wis.; (F) Great Lakes Dredge & Dock Co., Chicago, Ill. The item bids were:

	A.	B.	C.	D.	E.	F.
2,600 cu. yds. dredging for crib foundation	$0.35	$0.30	$0.40	$0.40	$0.40	$0.50
577 lin. ft. foundation piles	.40	.60	.80	.65	.84	.45
12,792 lin. ft. oak piles	.40	.30	.33	.36	.38	.35
13,027 lin. ft. B. M. oak timber, per M. ft.	65.00	60.00	70.00	60.00	81.00	60.00
64,592 lin. ft. B. M. hemlock timber, per M. ft.	40.00	31.00	33.00	36.00	41.00	40.00
146,931 lin. ft. B. M. pine or Douglas fir, per M. ft.	50.00	39.50	40.00	50.00	48.00	55.00
262,188 lin. ft. B. M. pine or Douglas fir planks for sheet piles, per M. ft.	48.00	42.00	40.00	40.00	55.00	60.00
12,291 lin. ft. B. M. pine or Douglas fir planks for walk & ditch, per M. ft.	40.00	37.00	40.00	44.00	46.00	45.00
24,317 lbs. drift bolts	.05	.035	.04	.04	.03	.05
19,965 lbs. screw bolts	.05	.04	.04	.04	.05	.06
19,966 lbs. angle irons	.07	.04	.04	.07	.05	.07
11,213 lbs. tie rods	.05	.04	.94	.04	.03	.06
798 lbs. spikes	.05	.04	.04	.04	.05	.05
7,213 lbs. carriage bolts	.05	.04	.04	.05	.05	.06
732 tons 100-lb. stone	1.50	1.15	1.50	1.35	1.50	1.75
85 tons 500-lb. stone	2.00	1.50	1.90	1.85	2.00	2.00
Approximate totals	$35,948	$29,330	$30,217	$35,276	$36,855	$40,172

SEWER.—Easton, Md.—Bids were received on April 15 by the Sewer Commission for the construction of sewers. The following bids were received: (A) Heins & Hayman, Baltimore, Md.; (B) United Paving Co., Atlantic City; (C) Coryell Construction Co., Williamsport, Pa.; (D) B. F. Sweeten & Son, Camden, N. J.; (E) David M. Andrew & Co., Baltimore, Md.; (F) Hard & Worm, New York; (G) J. B. O'Rourke & Co., Boston, Mass.; (H) Martin & Miller, Roselle Park, N. J.; (I) W. H. & C. F. Thompson, Baltimore, Md.; (J) Kingdon Construction Co., Baltimore, Md.; (K) Wm. C. Evans, Ambler, Pa.

	A.	B.	C.	D.	E.	F.	G.	H.	I.	J.	K.
1,787 ft. 8-in. pipe, 0- 6 cut	$0.39	$0.43	$0.45	$0.45	$0.52	$0.44½	$0.53	$0.45	$0.53	$0.45	$0.56
9,715 ft. 8-in. pipe, 6- 8 cut	.48	.46	.58	.52	.64	.48	.55	.53	.59	.54	.74
9,620 ft. 8-in. pipe, 8-10 cut	.59	.60	.70	.68	.75	.54	.70	.69	.80	.75	.95
1,075 ft. 8-in. pipe, 10-12 cut	.75	.76	.82	.88	.87	.70	.84	.95	.99	.95	1.29
8-in. pipe, 12-14 cut	1.18	1.06	.95	1.13	1.10	.85	1.30	1.45	1.21	1.04	1.70
8-in. pipe, 14-18 cut	1.90	1.73	1.20	1.96	1.60	1.46	2.75	3.00	1.70	1.15	2.85
10-in. pipe, 0- 6 cut	.54	.51	.54	.53	.68	.56	.59	.65	.70	.59	.66
820 ft. 10-in. pipe, 6- 8 cut	.59	.55	.66	.60	.86	.59	.65	.77	.79	.74	.82
1,790 ft. 10-in. pipe, 8-10 cut	.69	.68	.80	.76	1.00	.65	.90	.89	1.05	.85	1.14
1,425 ft. 10-in. pipe, 10-12 cut	.81	.85	.91	.96	1.16	.80	.97	.87	1.30	1.00	1.37
365 ft. 10-in. pipe, 12-14 cut	1.22	1.15	1.05	1.25	1.37	.95	1.47	1.50	1.57	1.13	1.71
10-in. pipe, 14-18 cut	2.00	1.83	1.35	2.00	1.80	2.05	3.00	3.00	2.19	1.24	2.90
2,215 ft. 12-in. pipe, 0- 6 cut	.58	.65	.60	.65	.69	.59	.69	.75	.74	.69	.78
525 ft. 12-in. pipe, 6- 8 cut	.70	.71	.75	.72	.96	.63	.79	.83	.92	.81	.97
40 ft. 12-in. pipe, 8-10 cut	.84	.81	.90	.88	1.09	.65	1.00	.97	1.19	.95	1.25
635 ft. 12-in. pipe, 10-12 cut	1.05	.97	1.03	1.08	1.23	.90	1.15	1.25	1.44	1.12	1.49
430 ft. 12-in. pipe, 12-14 cut	1.35	1.33	1.17	1.37	1.41	1.01	1.55	1.90	1.76	1.32	1.90
110 ft. 12-in. pipe, 14-18 cut	2.10	1.95	1.49	2.37	1.90	2.20	3.50	3.00	2.44	1.50	2.95
12-in. pipe, 18-up	2.30	2.79	2.00	3.00	2.50	4.10	5.00	5.00	3.07	1.86	3.50
720 ft. 15-in. pipe, 0- 6 cut	.68	.76	.74	1.35	.87	.78	.85	1.00	.97	.85	1.02
200 ft. 15-in. pipe, 6- 8 cut	.88	.89	.93	1.50	1.04	.80	1.00	1.15	1.15	.96	1.21
15-in. pipe, 8-10 cut	1.12	1.56	1.10	1.75	1.40	.82	1.15	1.25	1.48	1.14	1.55
15-in. pipe, 10-12 cut	1.48	1.67	1.24	2.00	1.75	1.13	1.50	1.50	1.78	1.31	1.85
15-in. pipe, 12-14 cut	1.97	2.03	1.40	2.25	2.10	1.24	1.75	1.85	2.11	1.59	2.40
118 manholes, 10 ft. and under	38.00	49.83	52.00	35.00	35.00	61.50	42.00	39.00	40.00	55.00	58.00
20 ft. extra depth manholes, per ft.	3.80	4.98	3.40	4.00	4.00	4.00	5.00	4.50	4.00	3.80	4.50
32 flap valves for F. T.	12.00	13.35	17.50	7.50	12.00	11.50	12.00	15.00	15.00	15.00	7.00
32 water con. to F. T.	8.50	6.43	10.00	15.00	15.00	21.50	10.00	10.00	10.00	7.20	10.00
20 lamp holes	8.50	7.59	9.00	10.00	8.00	6.50	10.00	10.00	7.00	6.75	12.00
200 deep house con.	.30	.23	.12	.50	.60	1.25	.30	1.00	1.00	.25	.12
10,000 bd. ft. lumber foundations	39.00	34.50	40.00	35.00	35.00	45.00	35.00	35.00	40.00	45.00	45.00
10,000 bd. ft. lumber sheeting	25.00	40.25	25.00	35.00	15.00	50.00	30.00	30.00	25.00	32.00	35.00
3 tons cast-iron pipe	40.00	40.25	35.00	50.00	35.00	37.50	45.00	50.00	50.00	37.50	33.00
10 yds. extra concrete	7.00	7.36	8.00	10.00	9.00	11.50	8.00	8.00	9.00	8.00	7.00
200 yds. fill	.40	.69	.50	.75	.25	.85	.60	.50	1.00	.25	.60
North settling and sterilizing tank minus engines and pump	4,600.00	4,538.53	3,750.00	3,725.00	3,200.00	4,950.00	4,950.00	5,700.00	5,400.00	5,900.00	....
South settling and sterilizing tank minus engine and pump	4,200.00	4,232.62	3,500.00	3,625.00	3,200.00	4,435.00	4,800.00	5,000.00	4,500.00	5,540.00	....
North sludge bed	700.00	756.15	900.00	1,600.00	1,266.00	1,370.00	1,000.00	1,350.00	800.00	1,400.00	....
South sludge bed	700.00	756.15	900.00	1,800.00	1,266.00	1,370.00	1,000.00	1,350.00	800.00	1,400.00	....
Engine and pump for north tank	750.00	939.75	700.00	770.00	650.00	450.00	800.00	700.00	700.00	500.00	....
Engine and pump for south tank	750.00	939.75	700.00	770.00	650.00	450.00	800.00	700.00	700.00	500.00	....
5-in house connections	.38	.40	.35	.65	.60	.96	.45	.35	1.50	.35	.37
	$37,011.78	$39,117.06	$40,239.15	$40,262.76	$40,733.04	$41.285.77	$42,877.01	$44,311.35	$45,312.76	$46,353.05	$51,867.17

PAVING.—Geneva, Ohio.—Bids were received on April 28 for paving Broadway and Main St., according to plans prepared by Cummings & Downer, Engrs., Painesville, Ohio, from: (A) E. A. FRESHWATER & SONS (awarded contract); (B) The Ohio Engineering Co.; (C) The Buckeye Engineering Co.; (D) The Enterprise Paving & Construction Co.; (E) H. N. Oberlander; (F) Wilson & Harper; (G) George M. Harris; (H) Downs & Campbell; (I) J. J. and R. W. Burns; (J) Gould & Maybach; (K) B[illegible]win Bros.; (L) William E. McHugh; (M) H. and M. E. Miller; (N) Hewit Cons[illegible]n Co. The item bids were as follow[illegible]

PAVING BROADWAY, GENEVA, OHIO.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
6,471 cu. yds. grading	$0.30	$0.30	$0.40	$0.30	$0.30	$0.32	$0.42	$0.40	$0.35	$0.30	$0.35	$0.2[illegible]	$0.39	$0.35
15,796 sq. yds. foundation	.55	.57	.66	.63	.54	.55	.60	.55	.70	.60	.63	.65	.47	.56
15,796 sq. yds. Collinwood block	1.01	1.00	.94	1.18	1.09	1.12	1.16	1.04	1.04	1.08	.98	.98	1.03	1.00
15,796 sq. yds. Buckeye block	....	....	....	....	....	....	....	....	....	....	1.02	....	....	1.00
15,796 sq. yds. Newburg block	1.02	1.04	....	1.19	....	1.13	1.17	1.05	1.05	1.09	1.01	.99	....	....
15,796 sq. yds. Cleveland block	....	1.04	....	1.20	....	1.14	1.18	....	1.06	....	....	....	1.05	....
15,796 sq. yds. Century block	1.03	1.04	.96	1.20	1.11	1.14	1.18	1.06	1.06	1.10	1.02	1.00	[illegible]	....
15,796 sq. yds. Bessemer block	1.03	1.04	.96	1.20	1.11	1.14	1.18	1.04	1.06	1.10	1.02	1.00	[illegible]	1.00
15,796 sq. yds. Metropolitan block	1.08	1.09	1.01	1.25	1.16	1.19	1.23	1.11	1.11	....	1.07	1.05	[illegible]	....
15,796 sq. yds. Big Four block	....	1.09	1.01	....	1.16	1.19	1.23	1.11	1.11	....	....	1.05	[illegible]	....
15,796 sq. yds. Medal block	....	1.09	1.03	1.27	1.18	1.21	1.25	1.13	....	....	1.07	1.07	[illegible]	....
7,450 lin. ft. straight curb	.55	.60	.64	.64	.52	.65	.70	.75	.60	.71	.55	.55	[illegible]	.54
445 lin. ft. curved curb	1.00	.80	.94	.80	.70	.80	.93	1.25	.75	1.15	.70	.90	[illegible]	.65
50 lin. ft. curb reset	.20	.50	.39	.40	.25	.35	.60	.40	.35	.45	.10	.25	[illegible]	.10
400 lin. ft. headers	.50	.40	.40	.30	1.00	.60	1.00	.40	.70	.50	.60	.80	[illegible]	.50
580 sq. ft. new sidewalk	.12	.12	.12	.15	.14	.15	.15	.16	.16	.12½	.11	.12	[illegible]	.12
500 sq. ft. sidewalk relaid	.03	.05	.04	.05	.10	.03	.06	.04	.06	.05	.03	.09	[illegible]	.03
14 manhole caps reset	2.00	1.50	1.25	2.00	5.50	2.00	1.00	3.00	1.50	1.00	.50	3.00	[illegible]	2.00
1 new manhole cap	5.00	15.00	8.25	12.00	9.00	8.00	13.00	10.00	15.00	5.00	9.00	17.00	[illegible]	12.00
1 lamphole cap reset	3.00	1.50	3.00	2.00	3.00	1.00	1.50	2.00	1.00	.50	.50	5.00	[illegible]	2.50
2 trees removed	5.00	5.00	1.00	3.00	6.00	1.00	10.00	5.00	10.00	2.00	5.00	6.00	[illegible]	15.00
400 lin. ft. underdrain	.18	.12	.08	.08	.14	.10	.10	.20	.14	.15	.12	.08	[illegible]	.13
786 lin. ft. house sewer	.02	.30	.31	.45	.47	.30	.40	.30	.30	.85	.40	.30	[illegible]	[illegible]
740 lin. ft. inlet basin pipe	.55	.50	.48	.50	.62	.41	.50	.40	.52	.35	.30	.55	[illegible]	.45
33 inlet basins	15.00	15.00	17.50	20.00	17.50	15.00	24.00	20.00	20.00	18.00	12.00	25.00	[illegible]	23.00
14 manholes	25.00	25.00	30.00	35.00	28.00	25.00	28.00	25.00	31.00	25.00	20.00	25.00	[illegible]	31.00
1 vertical foot of manhole	5.00	3.50	2.50	7.00	4.00	4.00	4.00	3.00	3.50	2.75	2.50	5.00	[illegible]	4.50
100 lin. ft. 18-in. pipe 6 ft. deep	1.10	.70	.70	.80	1.00	.60	.80	.70	.70	.80	.73	1.07	[illegible]	.80
1 lin. ft. 18-in. pipe 6 to 8 ft. deep	1.35	.80	.78	.90	1.40	.78	.90	.80	1.20	.80	1.10	1.30	[illegible]	.90
612 lin. ft. 15-in. pipe 6 ft deep	.80	.55	.60	.70	.75	.52	.65	.65	.60	.70	.59	.64	[illegible]	.65
52 lin. ft. 15-in. pipe 6 to 8 ft. deep	1.00	.65	.65	.80	.80	.52	.80	.65	1.00	.70	.82	.80	[illegible]	.75
1 lin. ft. 15-in. pipe over 8 ft. deep	1.50	.80	.80	1.15	1.00	.57	1.00	1.00	1.15	.70	1.14	1.40	[illegible]	2.00
1,253 lin. ft. 12-in. pipe 6 ft. deep	.60	.45	.45	.60	.65	.40	.55	.50	.47	.60	.50	.48	[illegible]	.49
354 lin. ft. 12-in. pipe 6 to 8 ft. deep	.75	.50	.50	.70	.95	.45	.63	.50	.54	.60	.73	.65	[illegible]	[illegible]
1 lin. ft. 12-in. pipe over 8 ft. deep	1.00	.75	.65	1.00	1.75	.50	.85	.60	1.00	.60	1.00	1.15	[illegible]	[illegible]
1 branch on 18-in. pipe	5.00	2.30	2.15	3.00	3.00	2.00	1.75	3.00	1.50	1.50	3.30	7.00	[illegible]	3.50
1 branch on 15-in. pipe	4.50	2.10	1.50	2.50	3.00	1.50	1.50	3.00	1.21	1.00	2.70	6.00	[illegible]	3.00
1 branch on 12-in. pipe	4.00	1.50	1.20	2.25	3.00	1.00	1.00	3.00	.90	.80	2.00	5.00	[illegible]	2.50
1 cu. yd. rock excavation	6.00	4.00	2.50	5.00	3.00	.75	4.00	5.00	5.00	1.50	2.00	4.00	4.00	.01
100 ft. B. M. sheeting	30.00	30.00	35.00	30.00	30.00	30.00	30.00	30.00	40.00	30.00	20.00	40.00	30.00	18.00
1 ft. 18-in. pipe over 8 ft. deep	1.50	.90	1.00	1.25	2.40	.88	1.05	1.00	1.30	.80	1.20	1.50	1.50	1.00
Total with Collinwood block	$34,507	$34,593	$36,204	$39,43[illegible]	$36,149	$36,552	$40,102	$37,154	$38,091	$38,076	$35,097	$35,709	$35,863	$34,786
Total with Buckeye block	......	......	......	......	......	......	......	......	......	......	$35,729	......	......	$34,786
Total with Newburg block	$34,665	$35,225	......	$39,596	......	$36,709	$40,260	$37,312	$38,249	$38,234	$35,571	$35,866	......	......
Total with Cleveland block	......	$35,225	......	$39,754	......	$36,867	$40,418	......	$38,407	......	......	......	$36,119	......
Total with Century block	*$34,823	$35,225	$36,520	$39,754	$36,465	$36,867	$40,418	$37,470	$38,407	$38,392	$35,729	$36,024	$36,119	......
Total with Bessemer block	$34,823	$35,225	$36,520	$39,754	$36,465	$36,867	$40,418	$37,154	$38,407	$38,392	$35,729	$36,024	$36,119	$34,786
Total with Metropolitan block	$35,613	$36,015	$37,310	$40,544	$37,255	$37,657	$41,207	$38,260	$39,197	......	$36,519	$36,814	$36,909	......
Total with Big Four block	......	$36,015	$37,310	......	$37,255	$37,657	$41,207	$38,260	$39,197	......	......	$36,814	$36,909	......
Total with Medal block	......	$36,015	$37,626	$40,860	$37,571	$37,973	$41,523	$38.576	......	......	$36,519	$37,130	$37,225	......

*Awarded contract.

PAVING MAIN ST., GENEVA, OHIO.

	A	B	C	D	G	H	I	J	K	L	N
8,111 cu. yds. grading	$0.30	$0.30	$0.40	$0.30	$0.48	$0.40	$0.35	$0.30	$0.30	$0.28	$0.35
18,817 sq. yds. foundation	.55	.57	.66	.63	.65	.55	.70	.60	.57	.65	.56
18,817 sq. yds. Collinwood block	1.01	1.00	.94	1.18	1.16	1.09	1.04	1.13	1.07	.95	1.00
18,817 sq. yds. Buckeye block	....	....	....	....	....	....	....	....	1.11	....	1.00
18,817 sq. yds. Newburg block	1.02	1.04	....	1.19	1.17	1.10	1.05	1.14	1.10	.96	....
18,817 sq. yds. Cleveland block	....	1.04	....	1.20	1.18	....	1.06	....	....	....	....
18,817 sq. yds. Century block	1.03	1.04	.96	1.20	1.18	1.11	1.06	1.15	1.11	.97	....
18,817 sq. yds. Bessemer block	1.03	1.04	.96	1.20	1.18	1.09	1.06	1.15	1.11	.97	1.00
18,817 sq. yds. Metropolitan block	....	1.09	1.01	1.25	1.23	1.16	1.11	....	1.16	1.02	....
18,817 sq. yds. Big Four block	....	1.09	1.01	1.26	1.23	1.16	1.11	....	....	1.02	....
18,817 sq. yds. Medal block	....	1.09	1.03	1.27	1.25	1.18	....	....	1.16	1.04	....
11,875 lin. ft. straight curb	.55	.60	.64	.64	.70	.75	.60	.71	.55	.54	.54
594 lin. ft. curved curb	1.00	.80	.94	.80	.93	1.25	.75	1.15	.70	.90	.65
50 lin. ft. curb reset	.20	.50	.39	.40	.60	.40	.35	.45	.10	.25	.10
293 lin. ft. headers	.50	.40	.40	.30	1.00	.40	.70	.50	.60	.80	.50
568 sq. ft. new sidewalk	.12	.12	.12	.15	.15	.16	.16	.12½	.11	.12	.12
836 sq. ft. sidewalk relaid	.03	.05	.04	.05	.08	.04	.06	.05	.03	.08	.03
19 manhole caps reset	2.00	1.50	1.25	2.00	1.50	3.00	1.50	1.00	.50	3.00	2.00
1 new manhole cap	5.00	15.00	8.25	12.00	12.00	10.00	15.00	5.00	9.00	17.00	12.00
4 lamphole caps reset	3.00	1.50	3.00	2.00	1.50	2.00	1.00	.50	.50	2.00	2.50
3 trees removed	5.00	5.00	1.00	3.00	15.00	5.00	10.00	2.00	5.00	6.00	15.00
2,700 lin. ft. underdrain	.18	.12	.08	.08	.10	.20	.14	.20	.12	.08	.13
1,170 lin. ft. house sewer	.02	.30	.31	.45	.45	.30	.30	.85	.60	.35	.35
644 lin. ft. inlet basin pipe	.55	.50	.48	.50	.65	.40	.57	.40	.30	.50	.45
36 inlet basin pipes	15.00	15.00	17.50	20.00	25.00	20.00	20.00	18.00	12.00	25.00	23.00
23 manholes	25.00	25.00	30.00	35.00	30.00	25.00	31.00	25.00	20.00	25.00	31.00
10.7 lin. ft. of manhole	5.00	3.50	2.50	7.00	5.00	3.00	3.50	3.25	2.50	3.00	4.50
1,700 lin. ft. 18-in. pipe 6 ft. deep	1.10	.70	.70	.80	1.00	.70	.75	.85	.73	.97	.80
425 lin. ft. 18-in. pipe 6 to 8 ft. deep	1.35	.80	.78	.90	1.10	.80	1.00	85	.96	1.07	.90
241 lin. ft. 18-in. pipe over 8 ft. deep	1.50	.90	1.00	1.25	1.25	1.00	1.10	.95	1.08	1.35	1.00
730 lin. ft. 15-in. pipe 6 ft. deep	.80	.55	.60	.70	.80	.65	.65	.70	.59	.60	.65
275 lin. ft. 15-in. pipe 6 to 8 ft. deep	1.00	.65	.65	.80	.95	.65	1.05	.75	.82	.80	.75
1 lin. ft. 15-in. pipe over 8 ft. deep	1.50	.80	.80	1.15	1.10	1.00	1.20	.75	1.14	1.20	2.00
1,297 lin. ft. 12-in. pipe 6 ft. deep	.60	.45	.45	.60	.70	.50	.52	.60	.50	.52	.49
350 lin. ft. 12-in. pipe 6 to 8 ft. deep	.75	.50	.50	.70	.80	.50	.59	.60	.73	.65	.57
40 lin. ft. 12-in. pipe over 8 ft. deep	1.00	.75	.65	1.00	1.00	.60	.97	.65	.85	.80	.67
1 branch on 18-in. pipe	5.00	2.30	2.15	3.00	1.75	3.00	1.50	1.50	3.30	7.00	3.50
1 branch on 15-in. pipe	4.50	2.10	1.50	2.50	1.50	3.00	1.21	1.00	2.70	6.00	3.00
1 branch on 12-in. pipe	4.00	1.50	1.20	2.25	1.00	3.00	.90	.80	2.00	5.00	2.50
1 cu. yd. rock excavation	6.00	4.00	2.50	5.00	4.00	5.00	5.00	1.50	4.00	3.00	.01
1,000 ft. B. M. sheeting	30.00	30.00	35.00	30.00	30.00	30.00	40.00	30.00	20.00	40.00	18.00
Total with Collinwood block	$46,060	$45,198	$47,236	$51,395	$54,823	$49,897	$49,856	$51,266	$46,218	$46,345	$45,536
Total with Buckeye block	......	......	......	......	......	......	......	......	$46,971	......	$45,536
Total with Newburg block	$46,249	$45,951	......	$51,583	$55,011	$50,085	$50,044	$51,455	$46,783	$46,533	......
Total with Cleveland block	......	$45,951	......	$51,771	$55,199	......	$50,232	......	......	......	......
Total with Century block	*$46,437	$45,951	$47,613	$51,771	$55,199	$50,273	$50,232	$51.643	$46,971	$46,721	......
Total with Bessemer block	$46,437	$45,951	$47,613	$51,771	$55,199	$49,897	$50,232	$51,643	$46,971	$46,721	$45,536
Total with Metropolitan block	......	$46,892	$48,554	$52,712	$56,140	$51,214	$51,173	......	$47,912	$47,662	......
Total with Big Four block	......	$46,892	$48,554	$52,900	$56,140	$51,214	$51,173	......	......	$47,662	......
Total with Medal block	......	$46,892	$48,930	$53,088	$56,516	$51,590	......	......	$47,912	$48,038	......

*Awarded contract.

Readers' Wants

If you are in the market for material, equipment or supplies, and fail to find it in our advertising pages, send us full particulars, and we will gladly put you in touch with the right parties.

POWER PLANT EQUIPMENT, Kaweah, Cal.—We are requested by R. W. Keller, C. E., to advise firm manufacturing equipment for small power plants that he wishes catalogs and literature.

EVAPORATORS AND SMALL PRESSURE FILTERS, Greenville, Miss.—F. Eberspacher, Box 246, requests that he receive catalogs from manufacturers of evaporators for supplying feed water losses on vessels plying in salt waters and he also desires literature on small pressure filters.

WELDING APPARATUS, Garfield, Utah.—C. W. Wilson, Engr. Dept., Garfield Smelting Co., writes that he desires to correspond with the manufacturers of Oxy Acetylene welding equipment.

GRINDING MACHINERY, Coatesville, Pa.—We are requested to advise manufacturers of grinding machinery that E. J. Kauffman, 136 East Main St., desires information relative to grinding machinery.

CONSTRUCTION EQUIPMENT, Elephant Butte, N. M.—We are asked by H. J. Gault, Constg. Engr., U. S. R. S., to advise manufacturers of construction equipment that he wishes catalogs of all equipment to be used in the construction of a large dam.

INDUSTRIAL NOTES.

MR. LOUIS I. MUNOZ and Mr. Ramon Vidal are making their headquarters at the office of The Goulde Manufacturing Co., 16 Murray St., New York, N. Y. These gentlement represent the firm of Morrison & Co., of Valparaiso, Chile, with branch houses at Santiago, Concepcion, Talcahuano and San Felipe, Chile. Morrison & Co. are engineers and general importers of hardware and engineers' supplies and are contractors to the Chilean Navy and the State Railways. Heretofore the firm of Morrison & Co. have been conducting their business for material purchased in the United States to be shipped to their establishments in Chile through commission houses in New York City, but they have now decided to establish their own offices in New York, London, Hamburg and possibly Paris, and from these branch offices they will make their own purchases and shipments to Chile. These gentlemen will remain here long enough to place their New York offices on a satisfactory working basis and will then proceed to London. In the meantime, it is their desire to be put in communication with manufacturers of general hardware and engineering supplies, cutlery floods, silver ware, sanitary material and plumbing supplies in general, house furnishings, mining supplies, naval stores and railway supplies. Under no circumstances will they deal with agents or jobbers. They must have direct contracts with the manufacturers. These gentlemen will be at 16 Murray St., New York City, for a month, and those manufacturers who would like to make their acquaintance should address a letter to them, asking an appointment. It is imperative that appointments be made in advance, as they have great pressure of business on hand, and so that intending visitors will not, of necessity, be kept waiting.

TRADE PUBLICATIONS.

TANKS A[illegible] CULVERT PIPE.—Harry Bros. Co., N[illegible] Orleans, La. Paper; 8½ × 11½ ins.; [illegible] 32; illustrated.

Descri[illegible] and price lists of tanks and cisterns [illegible] all purposes up to 100,000 gals. capacity [illegible] here given. These tanks are made o[illegible]rugated galvanized steel. Included [illegible]lso feed troughs, buckets, barrels an[illegible]s for various purposes. Tanks and sil[illegible]re made both entire and of a knock-[illegible] type. A page is devoted to sizes and pr[illegible] lists of galvanized steel culvert pipe, [illegible] 8 to 120 ins. in diameter; besides culvert pipe large galvanized pipe up to a diameter of 9 ft. 7 in. is also made by this firm.

METAL CEILINGS.—The Edwards Manufacturing Co., Cincinnati, Ohio. Stiff paper; 13½ × 10 ins.; pp. 186; illustrated.

This catalog is, of course, prepared primarily for the use of architects. It contains, as can be easily imagined from its size and thickness, a very great number of designs for ceilings, cornice and wall decorations. It is excellently printed and doubtless represents as complete a line of this class of material as can be obtained.

ASPHALT FLOORS.—American Asphaltum & Rubber Co., Chicago, Ill. Paper; 9 × 6 ins.; pp. 20; illustrated.

This company has laid asphalt mastic floors in buildings for over 12 years. for many industrial purposes these floors are claimed to have special advantages; to be waterproof, acid-proof and sanitary. They are further claimed to be dustless, odorless, noiseless, elastic and pleasant to tread upon. They have given particular satisfaction in refrigerating and packing-house plants, as well as for floors of steamships. Asphalt mastic floors may be laid over old floors of wood, brick or concrete and are therefore as well adapted to reflooring old buildings as for new construction. Specifications are given for construction. The booklet is illustrated with views of many industrial plants where these floors are in use.

WATER-WORKS SPECIALTIES. — Water Works Equipment Co., 50 Church St., New York City. Paper; 9 × 6 ins.; pp. 44; illustrated.

Pipe tapping machines, both gasoline engine and hand driven, service boxes, emergency repair sleeves, pipe cutters, valves, hydrants, etc., all the necessary equipment of a water-works department are briefly described and illustrated in this booklet.

LIST OF CONTRACTS PENDING

Plans and Specifications on File.

The following plans (P.) and Specifications (S.) are on file for reference only unless otherwise noted at the office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close.		Noted in issue of
5-13	Elec. light machinery, Washington, D. C. (S.)	4-27
5-16*	Drainage canals, etc. Swanquarter, N. C. (P. & S.)	4-27
5-20	Roof coverings, Norfolk, Va. (S.)	4-27
5-27	Pumping equip., Norfolk, Va. (S.)	4-27
5-27	Wharf. trestle, etc., Alaska (S.)	4-13
5-27	Water, etc., meters, Washington, D. C. (S.)	5-11
6- 1*	Canal enlargement, Boise, Idaho. (S.)	3-30
6- 3	Floating cranes, Hawaii (S.)	4- 6
6- 3	Locomotive, Portsmouth, N. H. (S.)	4-27
6- 3	Extension of dikes, Vallejo, Cal. (S.)	5- 4

Light, Heat and Power Plants.

Bids close.		Noted in issue of
5-13	Elec. light machinery, Washington, D. C.	4-27
5-13	Steam heating plant, Burlington, Ky.	4-27
5-15*	Fuel and supplies, West Point, N. Y.	4-20
5-15	Power plant, Eagle Dam, Tex.	4-27
5-15	Electrical equipments, Toledo, O.	4-27
5-15	Transformers, Winnipeg, Man.	5- 4
5-15	Conduit wiring system and gas piping system, La Crosse, Wis.	5-11
5-15	Electric subway, New York, N. Y.	5-11
5-15	Wiring, New Yrok, N. Y.	5-11
5-15	Power house, Sistersville, W. Va.	5-11
5-16	Power plant, Columbia, Mo.	5-11
5-16	Power plant, Columbus, Mo.	5-11
5-16	Electric plant, Columbia, Mo.	5- 4
5-20	Concrete dams, Marquette, Mich.	5-11
5-20	Steam heating system, Georgetown, Ont.	5-11
5-23	Generators, Dayton, Ohio	5- 4
5-24	Franchise, Riverside, Cal.	4-27
5-24	Transmission line, Riverside, Cal.	5-11
5-24*	Electric subway, Utica, N. Y.	5-11
5-25	Power plant equipment, Melville, Sask.	5-11
5-29	Franchise, Los Angeles, Cal.	5-11
5-29	Gas lighting system, Los Angeles, Cal.	5-11
5-30	Railway construction, Hanover, Ind.	5-11
5-31	Electrical machinery, Prince Albert, Sask.	5-11
6- 1	Lighting fixtures, Washington, D. C.	5-11
6- 1	Lighting fixtures, Washington, D. C.	5-11
6- 2	Power house, Columbus, Ohio	5-11
6-10	Electric light system, Colquitt, Ga.	5-11
6-17	Lighting system and fixtures, Helena, Mont.	5- 4

Bridges.

Bids close.		Noted in issue of
5-12	Bridge, Richmondville, N. Y.	5- 4
5-12	Bridges, Madison, Neb.	5-11
5-13	Bridge, Barnstable, Mass.	5- 4
5-13	Bridge, Sidney, Ohio	5- 4
5-15	Bridge, West Chester, Pa.	5- 4
5-15	Bridge, Milwaukee, Wis.	5- 4
5-15	Bridge, Delaware, Ohio	5- 4
5-15	Viaduct, Scranton, Pa.	5-11
5-15	Bridge, Abbeville, Ga.	5-11
5-16	Bridge, Lewisburg, W. Va.	5-11
5-16	Bridges, Dauphin, Man.	4-20
5-16	Substructure, Columbus, Ohio	4-27
5-16	Bridges, Pembina, N. Dak.	5-11
5-17	Bridge, Paterson, N. J.	5-11
5-19	Bridge, Dayton, Ohio	5-11
5-20	Bridge, Moab, Utah	5-11
5-22	Bridge work, Lorain, Ohio	5- 4
5-22	Bridges, Pittsburg, Pa.	5-11
5-22	Bridge, Canton, Ohio	5-11
5-29*	Bridge work, Cincinnati, Ohio	5- 4
5-29	Bridge, Warren, Ohio	5-11
5-29	Bridge, Norfolk, Ohio	5-11
5-31	Bridge, Hamilton, Ohio	5-11
6- 1	Bridge work, New York, N. Y.	4- 27
6- 5*	Bridge, Lackawanna, N. Y.	5-11
6-17	Bridge, Spain (Foreign)	4- 6

Buildings.

Bids close.		Noted in issue of
5-12	Improvements to bldgs, Atlanta, Ga.	5- 4
5-12	School, Panora, Iowa	5- 4
5-12	Exhibition building, Topeka, Kan.	5-11
5-12	School, Carrollton, Mo.	5-11
5-13	School, Herman, Neb.	5- 4
5-15	Jail and sheriff's residence, Liberal, Kan.	5- 4
5-15	School, Pendleton, Ore.	4- 6
5-15	Building, Dover, Del.	5-11
5-15	Addition to hospital, Milwaukee, Wis.	5-11
5-15	School, Hart, Mich.	5-11
5-15	School, Arkansas City, Kan.	5-11
5-15	Town hall, Beaufort, S. C.	5-11
5-15	Addition to hospital, Fort Strong, Mass	5-11
5-15	Remodeling court house, Thief River Falls, Minn.	5-11
5-16	Dormitory, Northfield, Minn.	5-11
5-16	Extension and remodeling of court house, Charlestown, W. Va.	4-13
5-17	School, Forest Hill, La.	4-13
5-17*	U. S. post-office, Pana, Ill.	4-13
5-18	U. S. post-office, Coffeyville, Kan.	4-16
5-18	Laundry bldg., etc., Lisbon, Ohio (Mfg. Pl.)	5- 4
5-18	Masonic home, Greenboro, N. C.	5-11
5-19	Library, Cincinnati, Ohio	5-11
5-19*	U. S. post-office and court house, Phoenix, Ariz	4-13
5-20	U. S. post-office, Sioux Falls, S. Dak	4-13
5-20	Schools, Columbus, Ohio	5-11
5-21	Houses, Jackson, Ky.	5-11
5-22	City hall, Oakland, Cal.	5-11
5-22	U. S. post-office, Warrensburg, Mo	4-13
5-22	Alterations to schools, New York, N. Y.	5-11
5-23	U. S. post-office, Ft. Collins, Colo.	4-20
5-24	School, Waupaca, Wis.	4-20
5-24*	U. S. post-office, Greenwood, Miss.	4-20
5-24	Administration bldg., Yellowstone Park, Wyo.	5-11
5-25	School, Langdon, N. Dak.	5-11
5-25	U. S. post-office and customhouse, San Diego, Cal.	4-20
5-27	U. S. post-office, Gadsden, Ala.	4-20
5-27*	U. S. post office and custom house, Richford, Vt.	4-20
5-27	School, Kanawha, Iowa	5- 4
5-29	U.S. post-office, Dyersburg, Tenn.	4-27
5-29	Public bldg., Seaforth, Ont.	5-11
5-31	U. S. post-office, Sulphur Springs, Tex.	5- 4
6- 5*	U. S. post-office, Dublin, Ga.	4-27
6- 6	Asylum, Rockport, Ind.	5- 4
6- 6	U. S. post-office, Wichita Falls, Tex.	5- 4
6- 6	Bank bldg., Monterey, Mex.	5-11
6- 6	Asylum, Rockport, Ind.	5-11
6- 7	Remodeling U. S. post-office, Wilmington, Del.	5- 4
6- 9	U. S. post-office, Victoria, Tex.	5- 4
7-27*	Group of buildings, Olympia, Wash.	5-11

Water-Works.

Bids close.		Noted in issue of
5-12	Water mains, Rockport, Ohio	4-20
5-12	Irrigation canals, Oakdale, Cal.	4-27
5-12	Meters, Minneapolis, Minn.	4-27
5-12	Canal, etc., Sterling, Colo.	5- 4
5-12	Well, Odell, Ill.	5-11
5-12	Water mains, Elyria	5-11
5-13*	Valves and hydrants, Sioux City, Iowa	5- 4
5-15*	Well, Tipton, Iowa	4-27
5-15*	Water-works, Penticton, B. C.	4- 6
5-15*	Water pipe, Pittsfield, Mass.	5- 4
5-15*	Dam, Holyoke, Mass.	5- 4
5-15	Settling basin, Glendine, Mont.	5-11
5-15	Water-works, Toledo, Ore.	5-11
5-15	Water mains, Nashville, Tenn.	5-11
5-16	Pumping engine, Eveleth, Minn.	5-11
5-16	Sprinkler system, New York	5-11
5-16*	Tunnel, New York	4-20
5-16*	Pumps, etc., Norfolk, Va.	4-27
5-17	Reservoir, etc., Fort Mason, Cal.	4-27
5-18	Canal, Belle Fourche, S. Dak.	5-11
5-19	Water mains, New York	5-11
5-19	Water pipes, St. Louis, Mo.	5-11
5-20	Pumps, etc., Sioux City, Iowa	5-11
5-22	Water mains, Silverton, Ohio	5-11
5-22*	Water-works, Battle Creek, Neb.	5-11
5-22	Valves, etc., Columbus, Ohio	5-11
5-22	Water tower, etc., Good Thunder, Minn.	5-11
5-22	Water-works, Stanford, Ill.	5-4
5-22	Water pipe, San Diego, Cal.	5- 4
5-22	Water system, North Mankato, Minn	5- 4
5-22	Water pipe, San Diego, Cal.	5- 4
5-23	Pipe hydrants, etc., La Crosse, Wis.	5- 4
5-23	Water-works, Vermillion, S. Dak.	5-11
5-23	Steel pipe, Toronto, Ont.	5-11
5-25	Laying pipe, etc., Harriston, Ont.	5-11
5-25	Water main, Fort Myer, Va.	5- 4
5-26	Pump, Toledo, Ohio	5-11
5-27	Water meters, etc., Washington, D. C.	5-11
5-29	Dam, etc., Ottawa, Ont.	5- 4
5-31	Water pipe, Burnaby, Ont.	5- 4
-31	Pipe, Vancouver, B. C.	4- 6
5-31	Pipe line, Fort Yellowstone, Wyo.	5-11
6- 1*	Canal enlargement, Boise, Idaho.	3-30
6- 2	Pumps, St. Louis, Mo.	5-11
6-15	Pumps, Philippine Islands (U. S. Poss.)	5- 4
6-20	Engines and pumps, India (Foreign)	4-27

Sewers.

Bids close.		Noted in issue of
5-11	Sewers, Palmer, Mass.	5-11
5-12	Sewers, Fairport, Ohio	5-11
5-12	Sewer pipe, St. John, N. B.	5- 4
5-15*	Sewers, Fulton, N. Y.	5- 4
5-15	Sewers, North Toronto, Ont.	5- 4
5-15	Sewers, Auburn, Ind.	5- 4
5-15*	Sewers, Auburn, Ala.	5- 4
5-15	Sewers, Auburn, Neb.	5- 4
5-15	Settling tanks, etc., Batavia, N.Y.	4-13
5-15	Sewer, The Dalles, Ore.	4-13
5-15	Sewer, Edmonton, Alta.	4-27
5-15	Sewers, Aberdeen, S. Dak.	4-27
5-15	Sewer pipe, San Diego, Cal.	5-11
5-15	Drains and pipes, Boston, Mass.	5-11
5-16*	Sewers, Summit, N. J.	5-11
5-16	Sewer, Canandaigua, N. Y.	5-11
5-17	Sewers, Reedsburg, Wis.	4-27
5-17	Sewers, Antigo, Wis.	4-27
5-17	Sewers, Las Vegas, N. Mex.	5- 4
5-18	Sewers, Guthrie, Okla.	5-11
5-19	Sewers, Garfield, N. J.	5-11
5-19	Sewer pipe, Mt. Gilead, Ohio	5-11
5-20*	Sewers, Adam, Mass.	5-11
5-22	Sewer, East Youngstown, Ohio	4-27
5-23	Sewer, Muskogee, Okla.	5- 4
5-23*	Siphon, New York	5- 4
5-24	Sewers, Williamsport, Pa.	4-27
5-24*	Sewers, Baltimore, Md.	5-11
5-24	Sewers, Frederick, Md.	5-11
5-24	Sewers, Binghamton, N. Y.	5-11
5-24*	Sewers, Dayton, Ohio	5-11
6- 1	Sewers, South Glens Falls, N. Y.	5- 4
6- 2*	Sewers, Bellefontaine, Ohio	5-11
6- 2	Sewer, Ft. Hamilton, N. Y.	5-11
6- 3*	Sewer, Englewood, N. J.	5-11
6- 5*	Sewage disposal plant, Fort Sheridan, Ill	5-11
6- 6*	Pump, etc., Toronto, Ont.	5-11
6- 6	Sewer construction, Ossining, N. Y.	5-11
7- 3	Sewage disposal system, San Jose, Cal.	2-23

Streets and Roads.

Bids close.		Noted in issue of
5-12	Paving, Jacksonville, Fla.	4-27
5-12*	Paving, Altoona, Pa.	5- 4
5-12	Grading, etc., Bluefield, W. Va.	5-11
5-13	Graveling, Gannevalley, S. Dak.	5-11
5-13	Gravel road, Rushville, Ind.	4-20
5-13	Road construction, Bowling Green, Ohio	5- 4
5-14	Grading, Lincoln, Neb.	5-11
5-15	Highway repair, Morristown, N. J	5-11
5-15	Sidewalk, Ogdensburg, N. Y.	5-11
5-15	Cedar blocks, Chicago, Ill.	5-11
5-15	Graveling, etc., Minneapolis, Minn.	5-11
5-15	Highway, New Orleans, La.	5-11
5-15	Paving, Barnesville, Ohio	5-11
5-15	Paving, etc., Cheviot, Ohio	5-11
5-15	Paving, Ingram, Pa.	5-11
5-15	Paving, etc., Irvington, N. J.	5-11
5-15	Regulating, etc., Yonkers, N. Y.	5-11
5-15	Road binder, Milwaukee, Wis.	5-11
5-15	Repaving, Kalamazoo, Mich.	5-11
5-15	Paving, Lodi, Cal.	5- 4
5-15	Paving, Harlan, Iowa	5- 4
5-15	Paving, etc., Catlettsburg, Ky.	4-20
5-15	Paving, Lackawanna, N. Y.	4-20
5-15	Paving, Waukesha, Wis.	4-27
5-15	Paving, etc., Indianapolis, Ind.	5- 4
5-16	Paving, Memphis, Tenn	4-13
5-16	Grading, etc., Coshocton, Ohio	5-11
5-16	Paving, etc., Greenwich, Ohio	5-11
5-16	Paving, etc., New York, N. Y.	5-11
5-16	Road construction, Bemidji, Minn.	5-11
5-17	Regulating, New York, N. Y.	5-11
5-17	Paving, etc., Minerva, Ohio	5-11
5-17	Grading, etc., Columbus, Ohio	4-27
5-18	Paving, Selinsgrove, Pa.	5-11
5-18	Paving, Newark, N. J.	5-11
5-19	Paving, Columbus, Ohio	5-11
5-19	Paving, Concord, N. H.	5-11
5-19	Macadamizing, etc., Cincinnati, O.	4-27
5-19	Grading, etc., Pierre, S. Dak.	5- 4
5-20	Road construction, Phoenix, Ariz.	5- 4
5-20	Grading, etc., Cleveland, Ohio	5- 4
5-20	Grading, Pelan, Minn.	5-11
5-20	Road construction Chatham, N. Y.	5-11
5-22	Regulating, etc., Yonkers, N. Y.	5-11
5-22	Paving, Concord, N. H.	5-11
5-22	Paving, New Philadelphia, Ohio	5- 4
5-22	Paving, New York	5-11
5-23	Regulating, etc., New York	5-11
5-23	Grading, etc., Bowling Green, Ohio	5- 4
5-23	Paving, etc., Auburn, N. Y.	5-11
5-23	Paving, Janesville, Wis.	5-11
5-24	Paving, etc., Canton, Ohio	5-11
5-24	Paving, etc., Frederick, Md.	5-11
5-25	Paving, Dayton, Ohio	5-11
5-25	Paving block, etc., Washington, D. C.	5-11
5-25	Highway improvement, Richmond, Va.	5-11
5-27	Grading, etc., Cleveland, Ohio	5-11
5-27	Macadam road, Greencastle, Ind.	5-11
6- 1	Road construction, Georgetown, Tex.	5- 4
6- 6	Gravel road, Wabash, Ind.	5-11
6- 7	Rock road, Monticello, Ind.	5- 4

Miscellaneous.

Bids close.		Noted in issue of
5-12	Launch basin, etc., Fort Hamilton, N. Y.	4-20
5-12	Breakwater repairs, Boston, Mass.	4-20
5-12*	Dredging, Jacksonville, Fla.	4-13
5-12	Lumber, Jeffersonville, Ind.	5- 4
5-12	Ditch, Jackson, Minn.	5- 4
5-12	Comfort stations, Columbus, O.	5-11
5-12	Lumber, steel bars, Panama (U. S. Poss.)	5-11
5-12	Steel shelving, New York	5-11
5-12	Stone jetty, Boston, Mass.	5-11
5-12	Drainage, New Roads, La.	5-11
5-13	Ditch, Ivanhoe, Minn.	5-11
5-13	Drain, Nevada, Iowa	5-11
5-13	Dredging, Buffalo, N. Y.	5-11
5-13	Ditch work, La Porte, Ind.	5-11
5-13	Drainage, Urbana, Ill.	5- 4
5-15	Crematory (Garbage), North Chicago, Ill.	5- 4
5-15*	Dredging, Detroit, Mich.	5- 4
5-15	Lumber, Fort Hancock, N. J.	5- 4
5-15*	Dredging, Oswego, N. Y.	4-20
5-15*	Dredging, Newport, R.I.	4-20
5-15*	Dredging, Norfolk, Va.	4-20
5-15*	Dredging, Baltimore, Md.	4-13
5-15	Dredging, Alexandria, Va.	4-27
5-15	Dredging, Wilmington, Del.	4-27
5-15	Canal, etc., Carrollton, Mo.	4-27
5-16*	Repairs to wharf, Fort H. G. Wright, N. Y.	4-27
5-16*	Drainage, Swanquarter, N. C.	4-27
5-16	Assessment map, Ossining, N. Y.	5-11
5-15	Play ground, Yonkers, N. Y.	5-11
5-15	Ice making addition, Washington, D. C.	5-11
5-15	Stone, New Orleans, La.	5-11
5-15	Dredging, Fort Caswell, N. C.	5-11
5-16	Lumber, Washington, D. C.	5-11
5-17	Lock and dam, Wheeling, W. Va.	4-20
5-18*	Dredging, New York	4-20
5-18	Rope, New York	4-20
5-18*	Excavation, etc., Chicago, Ill.	4-27
5-18	Dredging, Wilmington, Del.	4-27
5-18	Steel, brass, etc., Augusta, Ga.	4-27
5-18*	Coal bunker, etc., Wash., D. C.	5- 4
5-19	Culvert pipe, Mt. Gilead, Ohio	4-27
5-19*	Dredging, New London, Conn.	4-27
5-17	Gun forging, Washington, D. C.	5-11
5-18	Road oil, New York	5-11
5-19	Ash, etc., removal (Garbage), New York	5-11
5-19	Granite stone, New York	5-11
5-19	Lumber and piles, New York	5-11
5-20	Ditch work, Everett, Wash.	5-11
5-20*	Dredging, New London, Conn.	4-27
5-20*	Jetties, etc., Washington, D. C.	4-27
5-20	Roof coverings, Norfolk, Va.	4-27
5-20	Ditches, Osceola, Wis.	5- 4
5-22	Revetment, Kansas City, Mo.	5- 4
5-22*	Timber bulkhead, Stamford, Conn.	5- 4
5-22	Rock excavation, Nashville, Tenn.	4-27
5-22*	Dredging, Wilmington, Del.	4-27
5-22*	Dredging, Jacksonville, Fla.	4-27
5-22	Excavating channel, Lincoln, Neb.	5-11
5-22	Incinerator plant (Garbage), Moose Jaw, Sask.	5-11
5-22	Wharf, Prince Albert, Sask.	5-11
5-23*	Dock, Toronto, Ont.	4-27
5-23	Telegraph, etc., material, Australia (Foreign)	4-27
5-24*	Dredging, Milwaukee, Wis.	4-27
5-25*	Dredging, etc., Jacksonville, Fla.	4-27
5-25*	Dredging, Galveston, Tex.	5- 4
5-25	Garbage, Indianapolis, Ind.	5- 4
5-25	Cement, etc., Washington, D. C.	5-11
5-25	Pumping machinery, boilers, Portland, Ore.	5-11
5-26	Dredging, Boston, Mass.	5-11
5-26	Repairing jetties, Boston, Mass.	5-11
5-26	Fire alarm system, Syracuse, N. Y.	5-11
5-26*	Lock and dam, Cincinnati, Ohio	4-27
5-26	Cottages, McDowell, Ariz.	4-27
5-26	Steel and rivets, Los Angeles, Cal.	4-27
5-27	Pumping equip., Norfolk, Va.	4-27
5-27	Wharf, trestle, etc., Alaska	4-13
5-27*	Miter gate-moving machines, Panama (U. S. Poss.)	4- 6
5-27*	Bulkhead, Mobile, Ala.	5- 4
5-29	Stone, San Francisco, Cal.	4-20
5-29*	Dredging, Chicago, Ill.	5-11
5-29	Fire escapes, White Plains, N. Y.	5-11
5-30	Railway construction (Elec. Rys.), Hanover, Ind.	5-11
5-30	Canal, Algoo, Tex.	5-11
5-30	Franchise, Turlock, Cal., (Elec. Ry.)	4-20
5-30	Railway construction, Scottsburg, Ind. (Elec. Rys.)	4-20
5-31*	Cement, Montgomery, Ala.	5- 4
5-31*	Dikes, Savannah, Ga.	5- 4
5-31	Cottages, etc., Tekoa, Wash.	5- 4
5-31	Lumber, etc., Panama (U. S. Poss.)	5-11
6- 1	Dredging, Cleveland, Ohio	5-11
6- 1	Breakwaters, Cleveland, Ohio	5-11
6- 1*	Dredging, Norfolk, Va.	5- 4
6- 1*	Breakwater, Portland, Me.	5- 4
6- 1	Canal, Wilmot, Ark.	4-13
6- 3	Floating cranes, Washington, D.C.	4- 6
6- 3	Locomotive, Portsmouth, N. H.	4-27
6- 3	Extension of dikes, Vallejo, Cal.	5- 4
6- 3	Fabricated steel struc. material, Hawaii (U. S. Poss.)	5-11
6- 5*	Lock and dam, Wheeling, W. Va.	5-11
6- 6	Franchise (electric railway), Fowler, Cal.	5-11
6- 6*	Dredge, Nashville, Tenn.	5-11
6- 6*	Drainage canals, levees, etc., New Orleans, La.	5- 4
6- 6	Towboat, Vicksburg, Miss.	4-27
6- 7	Cable, Australia (Foreign)	4-27
6- 7*	Dredge hull, scows, Washington, D. C.	5-11
6-15	Fire engine, Washington, D. C.	5-11
6-20	Hose, Washington, D. C.	5-11
6-20	Colliers and tugs, Wash., D. C.	4-27
6-29*	Lock masonry, Detroit, Mich.	5-11
7- 3	Police patrol telegraph system, Winnipeg, Man.	5-11
7-22*	Harbor work, Chile (Foreign)	4-27
7-22	Port work, Chile (Foreign)	4- 6
8- 1	Designs, etc., for monument, Cincinnati, Ohio	2- 9

Examinations.

Examination date.		Noted in issue of
5-24	Highway engineer, Washington, D. C.	4-20
5-24	Topographic Draftsman and Copyist, Topographical Draftsman, Washington, D. C.	4-20
5-24	Prepator, Washington, D. C.	4-20
5-24	Drainage Engineer, Wash., D. C.	4-20
5-25	Forest Pathologist, Wash., D. C.	4-20
5-24	Asst. Elec. Engr., New York	5-11
	Forest Products, Wash. D. C.	4-20
5-27	Modeler, Washington, D. C.	5-11
6- 3	Oiler, Washington, D. C.	5-11

STEAM SHOVELS.—The Thew Automatic Shovel Co., Lorain, Ohio. Pasteboard; 9 x 6 ins.; pp. 32; illustrated.

The Thew Full Circle Swing Shovel is mounted on a single 4-wheel truck. The smaller sizes are mounted either upon wide-tired traction wheels or upon car wheels; the heavier machines are usually mounted on standard gage car wheels. All trucks are self-propelling. Type No. O shovel is claimed to be the lightest and smallest steam shovel built. It weighs 15 tons and has a ⅝-cu. yd. dipper. It is claimed to be particularly useful in highway construction, street grading, cellar and foundation work and irrigation ditch construction. Four other types are described, the largest weighing 55 tons and having a dipper capacity of 1¾ cu. yds. All these shovels can be equipped for electrical operation with direct or alternating current; by substituting suitable lubricating devices they may also be operated by compressed air.

VALVES.—Chapman Valve Manufacturing Co., Indian Orchard, Mass. Cloth; 6 x 9 ins.; pp. 174; illustrated.

This catalog has been prepared to meet the needs of the engineer and contractor, as well as the general trade, and it will be found a useful addition to an engineer's working library. Valves of every description are included in the products of this firm; for water, steam, gas, oil and air. Illustrations, price lists and numerous cross-section diagrams are included. There are 8 pages of illustrations showing different operating mechanisms for large valves. Particular attention has been given in this edition of the catalog to sluice gates. These gates are made in standard sizes from 6 x 6 ins. to 96 x 96 ins., and are operated by hand, hydraulic cylinder or electric motor. There are 24 pages devoted to line cuts and tables showing all the dimensions of all the standard valves made by this firm. Three of the largest gate valves in the world were recently completed by this manufacturer. They were built for the Ontario Power Co., of Niagara Falls, Ont., and have a water-way diameter of 9 ft., a height over all of 30 ft. 3 in., and a weight of 130,000 lbs. Each valve is operated by a 15-HP. electric motor and are to control hydraulic turbines generating 12,000 HP. An index completes the catalog, which includes both names and list numbers of the valves.

For other Proposal Advertisements see pages
49, 50, 52, 53
of Advertisements and Construction News, page 234

SEWAGE DISPOSAL.

Bellefontaine, Ohio.

Bids will be received by the Director of Public Service of Bellefontaine, Ohio, up to 12 o'clock noon, June 2, 1911, for furnishing all materials and performing all labor, for constructing the reduction tanks and primary contact beds, and for building outlet drains, and for furnishing and erecting all automatic controlling machinery, as per plans and specifications on file in the office of the Director of Public Service.

Each bidder shall deposit with his bid a certified check on a solvent bank, payable to the City Treasurer of Bellefontaine, or cash, in the sum of $1,000, as a guarantee of good faith.

Bids must be made on printed blanks to be secured from the Director of Public Service.

All bids must state price of labor and material of each item and must include prices on every item specified.

The quantities of the work are approximately as follows:

Excavation	2,100 cubic yards
Concrete	1,530 cubic yards
Steel	7,000 pounds
Broken stone, washed gravel or screened coke	8,500 cubic yards
6-in. sewer pipe	3,300 ft. in underdrains
8-in. sewer pipe	800 ft. in underdrains
24-in. sewer pipe	300 ft. in underdrains

500 feet 24-inch sewer outlet drain.
120 feet 20-inch sewer outlet drain.
600 feet 15-inch sewer outlet drain.
850 feet 12-inch sewer outlet drain.
4 manholes.
1 catch basin.
16 cubic yards masonry in bulkheads.

Complete equipment of controlling machinery, design to be adopted after bids are received from competing manufacturers.

The Director of Public Service reserves the right to reject any or all bids or to waive defects in bids in the interest of the city.

All bids must be in sealed envelopes, endorsed on the outside "Proposal for Sewage Disposal," and must be addressed to the Director of Public Service.

By order of the Director of Public Service.

PAUL O. BATCH,
Clerk.

BRIDGES, ETC.

City of Lackawanna, N. Y.

Sealed proposals will be received by the Common Council of the City of Lackawanna, Erie County, New York, in the Council Chambers in the said City at eight o'clock P. M. of the 5th day of June, 1911, and at that time and place publicly opened and read; for the furnishing of all materials and the performance of all labor required in the following improvement:

Excavation for the relignment of Smokes Creek. The building of two plain concrete abutments. The erection of a 43' Skew Span Steel Girder Highway Bridge.

According to the plans and specification on file in the office of the City Clerk.

No proposal will be considered unless it be accompanied by a certified check made payable to the order of M. M. O'Mara, City Treasurer, for at least ten (10%) per cent. of the amount of the bid or in lieu of such check by a bond to be approved by the Mayor in the penalty of fifty (50%) per cent. of the amount of the bid. Specifications and printed forms and any desired information can be seen and examined at the office of the said City Clerk in the Lackawanna National Bank Building.

The Common Council of the City of Lackawanna reserves the right to reject any and all bids and waive any informalities.

JOHN J. MONAGHAN,
City Clerk.

Dated May 9, 1911.

BUILDINGS.

Olympia, Wash.

The State Capitol Commission of the State of Washington, at Olympia, Washington, being thereunto duly authorized by law, invites a competition among architects for a general architectural plan for a series or group of buildings to be erected on "Capitol Place" and designs and plans for a Temple of Justice.

Application for the Program of Information and Contour Map accompanying the same should be made to E. W. Ross, Secretary, State Capitol Commission, Olympia, Washington. In accordance with the law, a charge of one dollar ($1.00) is made for the Contour Map, and this sum must accompany each application.

All drawings and designs called for must be in the hands of the Commission before three o'clock P. M., July 27, 1911.

By order of the State Capitol Commission.

M. E. HAY, Governor,
Chairman.

Attest: E. W. ROSS, Secretary,
Commissioner of Public Lands.

SEWERS.

Adams, Mass.

Sealed proposals will be received by the Board of Selectmen of Adams, Mass., until 2 o'clock, May 20th for furnishing materials and labor for construction of sanitary sewers. The work will consist of approximately 40 ft. of 18", 200 ft. of 14" C. I. pipe, 2,500 ft. of 18", 1,500 ft. of 15", 100 ft. of 10", 200 ft. of 8" and 3,000 ft. of 5" Akron pipe, 10 Manholes and 8 Catch Basins. Each bid must be accompanied by a certified check for $500.00, payable to George H. Holden, Town Treasurer. The Town reserves the right to reject any and all bids. Plans and specifications are on file at the offices of Lindholm & Tuller, Civil Engineers, Agricultural Nat. Bank Bldg., Pittsfield, Mass.; Town Hall, Adams, Mass., and the Dowlin Blk., North Adams, Mass.

U. S. ENGINEER OFFICE, 920 17th St., N. W., Washington, D. C., May 8, 1911.—Sealed proposals for furnishing materials and constructing one dredge hull and three deck scows will be received here until 12 M., June 7, 1911, and then publicly opened. Information on application. W. C. LANGFITT, Lt.-Col., Engrs.

ELECTRIC SUBWAYS.

Utica, N. Y.

Sealed proposals will be received by the Board of Contract and Supply of Utica, N. Y., at the Common Council Chamber in said city at 2.00 o'clock P. M. on Wednesday, May 24th, 1911, for the construction and extension of electric subways in the city of Utica, N. Y.

The said work will consist of about 150,000 duct feet of tile and appurtenances.

Each proposal must be accompanied by a certified check in an amount equal to at least five (5%) per cent. of the amount of the bid.

A surety company bond in an amount equal to fifty (50%) per cent. of the bid will be required. Plans, specifications, form for proposal and instructions to bidders may be obtained upon application therefore to the undersigned upon the payment therefor of the sum of ten dollars as a guarantee to insure their return in good order on or before May 24th, 1911.

The Board reserves the right to reject any and all bids.

STUART F. DAY, Secretary,
Board of Contract and Supply,
No. 1 City Hall.

WATER PLANT.

Battle Creek, Nebraska.

Sealed proposals for bids will be received at the office of the Village Clerk of Battle Creek, Neb., until 8 o'clock P. M., May 22, 1911, and then opened, for the construction of a Water Plant, including building, 25 HP. engine, triplex pump, air compressor, air pressure tank, approximately 1,600 ft. of 6-inch cast-iron pipe, 6,400 ft. of 4-inch cast-iron pipe, 5 four-inch gate valves and boxes, together with necessary belts, pipe valves and fittings.

Each bid must be accompanied by certified check in the amount of 10% of any or all equipment bid on. Engineer's estimate, $10,000.00. Plans and specifications are on file with the Village Clerk, or copy of the same may be secured from the engineers at $5.00 each.

ALAMO ENGINE & SUPPLY CO.,
Omaha, Neb., Engineers.

OFFICE OF CONSTRUCTING QUARTERMASTER, FORT SHERIDAN, ILLINOIS, May 5, 1911.—Sealed proposals, in triplicate, will be received at this office, until 12.00 o'clock noon, June 5, 1911, and then opened, for the furnishing and installation of a sewage disposal plant, complete, including hydrolithic tank, filters, sludge beds, pumps, motors, electric pole line and connections, sewer main and outlet, etc., at Fort Sheridan, Illinois. Bids for work complete only will be considered. Specifications, blank proposals, etc., will be furnished from this office. A limited number of plans will be furnished from this office upon deposit of $25.00, which will be refunded upon return of same. Plans and specifications may be seen at this office, Office Chief Quartermaster, Dept. of the Lakes, Federal Building, Chicago, Ill., and Office Depot Quartermaster, Army Building, Whitehall Street, New York City. Envelopes containing proposals must be endorsed "Proposals for Sewage Disposal Plant," and addressed to "Constructing Quartermaster, Fort Sheridan, Illinois." CAPTAIN M. E. SAVILLE, Acting Quartermaster, Constructing Quartermaster.

U. S. ENGINEER OFFICE, Chicago, Ill., May 8, 1911.—Sealed proposals for dredging in Michigan City Harbor, Ind., will be received here until 10 A. M., May 29, 1911. Information on application. GEO. A. ZINN, Lt.-Col., Engrs.

Situations Open
(Or Vacant)

WANTED—All round, a number one master mechanic for two-year job on rolled earth embankment. State age, detail experience and name of last employer in first letter. Address "J. C.," Box two, East Morris, Conn. 19-1t

For Sale

FOR SALE.

One
Marion (Improved) Steam Shovel

Style "A," No. 695. Will be sold cheap. Address SCHENECTADY POWER COMPANY, Schaghticoke, N. Y. 19-1t

FOR SALE

New Steel B[illegible]lding

134' × 88', 26' to eaves, in[illegible] windows, doors, corrugated roof and [illegible]

JOLIET BRIDGE & IRO[illegible]MPANY,
Joliet, Ill.

FOR SALE.

Automob[illegible]le

5-Passenger, 4-Cylinder, 2[illegible] Touring Car, with **complete equipment,** [illegible]ding top, wind shield, high-tension ma[illegible] Stromberg carburetor, etc. This ma[illegible] has been **entirely overhauled.** It looks [illegible]nd trial will show motor to run perf[illegible] Owner has no further use for car, an[illegible]l sell to first party making fair offer. [illegible]onstrate to purchaser's satisfaction. C. [illegible]TLER, 148 West 76th St., New York C[illegible] 19-1t

FOR SALE.

35-HP. Hornsby Ackroyd

OIL ENGINE

16 × 20, 220 r.p.m. Weight, 16,[illegible] pounds. Equipped with complete air-star[illegible] apparatus. Also Snow STEAM PUMP[illegible]ompound duplex 10 and 16 × 8½ × 12, bra[illegible]ounted, outside center packed, 200 lb. work[illegible] pressure. Will sell at a reasonable fig[illegible].

BRIARCLIFF VILLAGE WATER WORKS,
Briarcliff Manor, N. Y. 19-1t

CHANGE *of* ADDRESS

NOTICES of change of address should reach us by Saturday to be effective the following week, otherwise papers will be mailed to the old address. The time limit was formerly the preceding Monday. Please bear this in mind.

Always send the OLD as well as the NEW ADDRESS

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NEW YORK

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